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FACULTY
BIOGRAPHICAL BACKGROUNDS
AND
PUBLICATIONS

New
OARDC

02102

Department of Horticulture
The Ohio State University
and
Ohio Agricultural Research and Development Center
Route 250 and Ohio 83 South
Wooster, Ohio 44691

639
OH3

DEPARTMENT ROSTER

January 1, 1980

| | |
|------------------------|----------|
| William L. Bauerle | Wooster |
| Stanley Z. Berry | Wooster |
| Roland C. Blake | Wooster |
| William M. Brooks | Columbus |
| Fred K. Buscher | Wooster |
| Garth A. Cahoon | Wooster |
| James L. Caldwell | Columbus |
| David E. Crean | Columbus |
| David C. Ferree | Wooster |
| Richard C. Funt | Columbus |
| James F. Gallander | Wooster |
| Jean R. Geisman | Columbus |
| Charles H. Gilliam | Columbus |
| Stanley F. Gorske | Columbus |
| Wilbur A. Gould | Columbus |
| Fred O. Hartman | Columbus |
| Robert G. Hill, Jr. | Wooster |
| Makoto Kawase | Wooster |
| Dale W. Kretchman | Wooster |
| R. Daniel Lineberger | Columbus |
| Andrew C. Peng | Columbus |
| John C. Peterson | Columbus |
| James M. Pisarczyk | Wooster |
| Hugh A. Poole | Wooster |
| Jerry L. Robertson | Columbus |
| Howard A. Rollins, Jr. | Columbus |
| John C. Scott | Columbus |
| Elton M. Smith | Columbus |
| George L. Staby | Columbus |
| Steven M. Still | Columbus |
| T. Davis Sydnor | Columbus |
| Harry K. Tayama | Columbus |
| James D. Utzinger | Columbus |
| Eugene C. Wittmeyer | Columbus |

All publications of the Ohio Agricultural Research and Development Center are available to all on a nondiscriminatory basis without regard to race, color, national origin, sex, or religious affiliation.

PREFACE

The Department consists of a faculty team each with specific assignments and responsibilities working together toward collective goals and objectives. The strength and reputation of a department is completely dependent upon the accomplishments and effectiveness of the faculty with significant contributions from support personnel. The following has been assembled to define the major roles and respective research, resident instruction and public service contributions of the faculty of the Department of Horticulture at The Ohio State University and the Ohio Agricultural Research and Development Center, over primarily the past 5 years.



Faculty of the Department of Horticulture, The Ohio State University and the Ohio Agricultural Research and Development Center, December 13, 1979. FIRST ROW: H.A. Poole, J.W. Scott, R.G. Hill, Jr., H.A. Rollins, Jr., J.R. Geisman, J.L. Caldwell, E.C. Wittmeyer. SECOND ROW: S.Z. Berry, D.E. Crean, J.L. Robertson, S.F. Gorske, A.C. Peng, W.M. Brooks,

R.C. Blake, F.O. Hartman, D.C. Ferree, W.L. Bauerle, THIRD ROW: J.C. Peterson, G.L. Staby, H.K. Tayama, J.M. Pisarczyk, M. Kawase, D.W. Kretchman, R.D. Lineberger, J.F. Gallander, T.D. Sydnor. MISSING: F.K. Buscher, G.A. Cahoon, R.C. Funt, C.H. Gilliam, W.A. Gould, E.M. Smith, S.M. Still, J.D. Utzinger.

NAME: William L. Bauerle DATE OF BIRTH: January 10, 1943

TITLE: Associate Professor AGE: 37

ASSIGNMENT: O.A.R.D.C. 100% O.S.U. _____ O.C.E.S. _____

EDUCATION:

| <u>Degree</u> | <u>Year</u> | <u>Institution</u> | <u>Major</u> |
|---------------|-------------|-------------------------------|-----------------|
| B.S. | 1964 | Delaware Valley College | Horticulture |
| M.S. | 1966 | Rutgers, The State University | Vegetable Crops |
| Ph.D. | 1970 | Cornell University | Vegetable Crops |

POSITIONS HELD:

1970-76 Assistant Professor, Department of Horticulture, Ohio
Agricultural Research & Development Center
1976- Associate Professor, Department of Horticulture, Ohio
Agricultural Research & Development Center

YEARS AT THE OHIO STATE UNIVERSITY: 9

RESIDENT INSTRUCTION:

Graduate Study Involvements:

Number of Advisees Past Five Years (1-1-75 to 1-1-80)

M.S. 1 Ph.D. 1

Number of Program Completions Past Five Years

M.S. 1 Ph.D. 1

RESEARCH ACTIVITIES:

Culture of vegetables, primarily tomatoes, lettuce and cucumbers, in greenhouse is my major involvement due to the relatively large greenhouse vegetable industry located in this state. We continue to develop new cultural systems and schemes in an effort to maintain a high degree of viability of our commercial greenhouse vegetable growers.

A major concern of commercial greenhouse growers is the raising cost of energy. We have been able to develop a system of putting double polyethylene over glass to conserve 57% of the total yearly usage of fuel.

Carbon Dioxide (CO₂) and light inducing photosynthetic activity in plants is important in plants grown during periods of the year where light is limiting. We have successfully been able to identify and combine fundamental studies of the plant environment such as the relation of CO₂, light, etc., with energy conservation and greenhouse vegetable cultural research.

PUBLICATIONS:

Journal Articles

- Bauerle, W.L. 1977. Energy conservation and plant growth by using double plastic on glass greenhouses. Jour. Art. No. 157-77 OARDC.
- Bauerle, W.L. and T.H. Short. 1978. Greenhouse energy conservation and effects on plant response. Ohio Rpt. 63(5):74-76, Sept.-Oct. 1978.
- Carter, J., W.L. Bauerle and D. Kretchman. 1979. The influence of root temperature on photosynthesis, root transpiration and root development of greenhouse tomatoes. Paper presented at ASHS, Columbus meeting, Aug. 3, 1979.
- Coplin, D.C., A.F. Schmitthenner, and W.L. Bauerle. 1978. A root of lettuce incited by a pythunn species with large spiny oogonia. Plant Dis. Jour. No. 64, 63-66.

International Articles

- Bauerle, W.L. and T.H. Short. 1977. Energy conservation and plant growth by using double plastic on glass greenhouses. Acta Hort. 76:305-311.
- Bauerle, W.L. and T.H. Short. 1978. Conserve energy and grow plants with double plastic on glass. Plasticult. No. 40, Paris, France, Dec. 1978.
- Bauerle, W.L. 1980. Bubble greenhouses a trend for the future. Plasticult. (in press).

Technical Articles

- Bauerle, W.L. 1975. The effects of fertilization and irrigation on yield and quality of greenhouse tomatoes. OARDC Res. Sum. 82, pp. 13-16.
- Bauerle, W.L. and E.A. Mora. 1975. Yield, sex expression and various quality considerations of some European seedless cucumbers. OARDC Res. Sum. 82, pp. 41-44.
- Bauerle, W.L. and T.H. Short. 1975. Preliminary effects of plant misting on yield and quality of fall greenhouse tomatoes. OARDC Res. Sum. 82, pp. 19-22.
- Bauerle, W.L. and J.J. Sonowski. 1975. Using ethephon to ripen greenhouse tomatoes at crop termination. OARDC Res. Sum. 82, pp. 23-26.
- Bauerle, W.L. 1977. Greenhouse vegetable cultivars in North America. Proc. Int'l Symp. on Controlled Environmental Agriculture. April 7-8, Tucson, Arizona, pp. 28.
- Bauerle, W.L. 1977. Greenhouse covering compared. Greenhouse Energy Conservation School, Proc. June 22, 1977.
- Bauerle, W.L. and T.H. Short. 1977. Conserving heat in glass greenhouses with surface-mounted air-inflated plastic. Spec. Circ. 101, OARDC.
- Bauerle, W.L. and T.H. Short. 1977. Energy conservation using double plastic on glass greenhouses. Proc. Int'l Plastic Cong. San Diego, Calif.

Technical Articles (cont.)

- Short, T.H. and W. L. Bauerle. 1975. The effects of vibrating trellis system on the yield and quality of greenhouse tomatoes. OARDC Res. Sum. 82, pp. 17-18.
- Short, T.H., W.L. Bauerle, and R.B. Curry. 1975. A preliminary report on predicting maturity rates and yield of greenhouse tomatoes. OARDC Res. Sum. 82, pp. 9-12.
- Short, T.H. and W. L. Bauerle. 1977. A double-plastic heat conservation system for glass greenhouse. Proc. Int'l Symp. Controlled Environment Agriculture. April 7 & 8, 1977, pp. 312, Tucson, Arizona.
- Short, T.H. and W.L. Bauerle. 1977. A double-plastic heat conservation system for glass greenhouses. For presentation at the 1977 Winter Meeting, Amer. Soc. of Agric. Eng. Paper No. 77-4528 (Chicago, IL) 12-13-16, 1977.

Other Published Materials

- Bauerle, W.L. and T.H. Short. 1976. Beat fuel costs. Amer. Veg. Grow. Nov. 1976.
- Bauerle, W.L. 1976. Energy Conservation. Ohio Flor. Assn. Bul.
- Bauerle, W.L. 1977. Comparison of greenhouse coverings in fuel consumption. Ohio Flor. Assn. Bul. No. 576, Oct. 1977, pp. 6.
- Bauerle, W.L. 1977. Energy conservation today and possibly tomorrow. Amer. Veg. Grow. pp. 4.
- Bauerle, W.L. 1977. Some innovations in European vegetable production. Amer. Veg. Grow. Feb. 1978.
- Bauerle, W.L. 1977. Book Review: the greenhouse environment. Am. Veg. Grow. Nov. 1977.
- Bauerle, W.L. 1977. Conservation is the key. Amer. Veg. Grow. Nov. 1977.
- Bauerle, W.L. 1977. Double poly stretches fuel. The Grower Mag. Ontario, Oct. 1977.
- Bauerle, W.L., T.H. Short and H.A. Poole. 1977. Conserving heat in glass greenhouses. Greenhouse Energy Conservation School Proc. June 22, 1977.
- Bauerle, W.L. 1978. Some innovations in European vegetable production. Paper submitted to Amer. Veg. Grower, Feb. 1978.
- Bauerle, W.L. 1978. Conserving heat in glass greenhouses with surface-mounted air-inflated plastic. Flor. Mag. Sept. 1978.
- Bauerle, W.L. and T.H. Short. 1979. Japan greenhouse industry impress Ohio scientists. The Great Lake Veg. Grow. News. Jan. 1979.

OUT OF STATE SPEAKING ENGAGEMENTS:

- Bauerle, W.L. 1975. Cultural guidelines on greenhouse European seedless cucumbers. Proc. TVA Veg. Workshop. Chattanooga, TN pp. 104-106.

OUT OF STATE SPEAKING ENGAGEMENTS (cont.)

- Bauerle, W.L. 1975. Ohio greenhouse research and general situation, with implications for the Tennessee Valley. Proc. Tenn. Val. Greenhouse Veg. Workshop. Chattanooga, TN pp. 11-13.
- Bauerle, W.L. 1975. Some innovations for greenhouse tomato production. Proc. Tenn. Val. Greenhouse Veg. Workshop. Chattanooga, TN pp. 90-93.
- Bauerle, W.L. 1975. The culture of greenhouse lettuce. Proc. Tenn. Val. Greenhouse Veg. Workshop. Chattanooga, TN, pp. 102-104.
- Bauerle, W.L. 1977. How to conserve energy in glass greenhouses. Mass. Greenhouse Growers Ann. Meet., July 1977.
- Bauerle, W.L. 1977. Energy conservation seminar for pot plant growers. Univ. of Illinois. Sept. 20, 1977.
- Bauerle, W.L. 1977. Energy conservation on practical solution on glass greenhouse. Canadian & Midwest Greenhouse Veg. Conf. Toronto, Ontario, Sept. 25-28, 1977.
- Bauerle, W.L. 1977. Energy conservation in greenhouses. Miss. Greenhouse Growers Ann. Meet.
- Bauerle, W.L. 1977. Crop response under glass covered plastic air inflation. Fall Energy Meet. Amherst, Mass.
- Bauerle, W.L. 1977. Total energy conservation programs in glasshouses. Presented to various departments of the Monsanto, St. Louis, MO, Nov. 11.
- Bauerle, W.L. 1978. New ideas in energy conservation in greenhouses. Greenhouse Veg. Growers Ann. Meet., Leamington, Ontario, Nov. 20.
- Bauerle, W.L. 1978. National greenhouse manufacturers association annual meeting. Cincinnati, OH, Dec. 3.
- Bauerle, W.L. 1978. Energy conservation. Ann. Meet. Green. Veg. Growers, Raleigh, NC, Dec.
- Bauerle, W.L. 1978. Practices for greenhouse vegetable growers, North Carolina.
- Bauerle, W.L. 1978. Conserving energy in greenhouses. Ontario Agric. Res. Bd. Meet. Nov. 8.
- Bauerle, W.L. 1979. Production practices used by Ohio greenhouse vegetable growers. Tomato production, alternate vegetable crops hydroponics. NC Greenhouse. Veg. Grow., Jan. 17.
- Bauerle, W.L. 1979. Update in Ohio greenhouse energy conservation projects. 38th Ann. Conv. and Equip. Show. Essex County Assoc. Growers, Leamington, Ontario, Jan. 10.

OUT OF STATE ENGAGEMENTS (cont.)

Bauerle, W.L. 1979. Energy conservation and what Ohio greenhouse vegetable growers are doing about it. NC Green. Veg. Grow. Ann. Meet. Short Course and Trade Show, Jan. 17.

Bauerle, W.L. 1979. Energy conservation in greenhouses. PA Veg. Conf. Jan. 24.

INTERNATIONAL SPEAKING ENGAGEMENTS:

Bauerle, W.L. and T.H. Short. 1977. Energy conservation and plant growth by using double plastic on glass greenhouses. Proc. Int'l Symp. on More Profitable Use of Energy in Protected Cultivation, Alnarp, Sweden.

Bauerle, W.L. 1978. The influence of carbon dioxide on plant growth in various energy conservation greenhouse systems, Tokyo, Japan.

UNIVERSITY, COLLEGE & DEPARTMENT COMMITTEES AND ACTIVITIES:

Participated in development of a movie on conserving energy in glass greenhouses.

Department ad-hoc tenure and promotion committee.

Graduate Chairman - Johnny Carter

Hosted numerous tours for Dean Kottman on the progress on our energy related research.

Hosted numerous tours and personnel visits from individuals from foreign countries such as Holland, Russia, Australia, Italy, England, Norway, Hungary, Israel, Greece, Japan, Sweden, Mexico and Saudi Arabia.

Member of Greenhouse Vegetable Task Force Committee.

Set up and/or directed many of the Greenhouse Energy Conservation schools, workshops, etc.

NON-UNIVERSITY PROFESSIONAL ACTIVITIES:

Director, National Agricultural Plastic Association

Instructor 10 weeks course on Vegetable Production at the Agricultural Technical Institute.

SCIENTIFIC & PROFESSIONAL SOCIETIES:

Currently a member of the International Society for Horticultural Science, American Society for Horticultural Science, Invitational Member of the Northeast Regional Greenhouse Committee and Director of the National Agricultural Plastics Society.

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GRANT OR GIFT SUPPORT RECEIVED:

| <u>Year</u> | <u>Source</u> | <u>Purpose</u> | <u>Amount</u> |
|-------------|--------------------------|--|---------------|
| 1975 | Monsanto Company | Energy Conservation | \$ 1,500 |
| 1976 | Monsanto Company | Energy Conservation | 3,500 |
| 1977 | Fred C. Gloeckner Found. | CO ₂ Enrichment in Greenhouse | 5,000 |
| 1978-1980 | Ohio Dept. of Energy | Energy Conservation | 348,000 |
| 1978 | Young-Rochester Co. | Energy Conservation | 1,000 |
| 1979 | Monsanto Company | Energy Conservation | 5,000 |
| 1979 | Canadian Industries Ltd. | Reflective Mulch Studies | 3,500 |
| 1979 | N.G. Heimos Grnhses. | Gift | 600 |
| 1979 | Mills River Grnhses. | Gift | 100 |
| 1979 | CY/RO Industries | Study Response of Acrylite on plants | 9,000 |
| 1980 | Jiffy Products Co. | Bag culture on tomatoes | 1,000 |
| 1980 | Arco Petroleum Co. | Energy Conservation (approved, but final docu- mentation not signed) | 348,000 |

* Grants in cooperation with Department of Agricultural Engineering

** Co-Project Leader Dr. Ted Short, Department of Agricultural Engineering

PAPERS PRESENTED AT PROFESSIONAL MEETINGS:

Bauerle, W.L. and T.H. Short. 1977. Energy conservation and plant growth by using double plastic on glass greenhouses. Proc. Int'l Symp. on More Profitable Use of Energy in Protected Cultivation, Alnarp, Sweden.

Bauerle, W.L. 1977. The influence of carbon dioxide on plant growth in various energy conservation greenhouse system. Tokyo, Japan.

NAME: Stanley Z. BerryDATE OF BIRTH: May 10, 1930TITLE: ProfessorAGE: 49ASSIGNMENT: O.A.R.D.C. 100% O.S.U. _____ O.C.E.S. _____EDUCATION:

| <u>Degree</u> | <u>Year</u> | <u>Institution</u> | <u>Major</u> |
|---------------|-------------|---------------------------------|-----------------|
| Ph.D. | 1956 | University of California, Davis | Plant Breeding |
| M.S. | 1953 | University of New Hampshire | Horticulture |
| B.S. | 1952 | Cornell University | Vegetable Crops |

POSITIONS HELD:

1977- Professor of Horticulture, OARDC and OSU
 1967-77 Associate Professor of Horticulture, OARDC and OSU
 1960-67 Plant Breeder-Campbell Soup Co., Davis, California
 1956-60 Research Scientist - U.S. Dept. of Agriculture, Beltsville, MD
 1953-56 Grad Research Assistant (Vegetable Crops Dept., Univ. of California)
 1952-53 Grad Research Assistant (Horticulture Dept., Univ. New Hampshire)

YEARS AT THE OHIO STATE UNIVERSITY: 12RESEARCH ACTIVITIES:

Hatch 484 (90%). Development and evaluation of improved mechanically harvestable processing tomatoes. (Provide the leadership of this program in field and lab raw product studies which encompasses developmental work carried out at Wooster, Columbus, Northwest Branch, Vegetable Branch Fremont in addition to cooperative trials with grower-processors. Cooperation nationally and internationally by the exchange of breeding material.)

Hatch 544 (10%). Processing efficiency and market acceptability of cultivars of tomatoes for canning. (Work with this project's leader, Dr. Gould, in providing much of the test lines for evaluation, as derived from Hatch 484, growing the plant material and assisting in evaluations.)

My efforts are directed primarily to the development and field evaluation of processing tomato cultivars especially adapted to machine harvest and suitable to coreless wholepack processing. The transition to new cultural methods, machine harvesting and new processing practices is dependent upon the availability of adapted high yielding varieties. In 1978 machine harvest cultivar Ohio 7663 was released; in addition to improved fruit firmness and jointless pedicel which allows for delivery of fruit free of stems and greater suitability to coreless wholepack processing, it represents a definite improvement over most other locally adapted cultivars because fruits set at high temperatures assuring uniform set. More recently, the cultivars Ohio 7630 and 7681 have exhibited particular promise and test commercial acreage of these lines is increasing. Similarly, new Ohio 7814, 7864, 7869 and 7870 have exhibited particular promise in advanced trial. Effort is also being made to develop more in-depth information on some of the production and quality characteristics involved in the breeding effort such as germination cold tolerance, high temperature set and high pigment. The cultivars and breeding materials are also being utilized by breeders in Ohio and those in other states as well as those outside the United States.

UNIVERSITY, COLLEGE AND DEPARTMENT COMMITTEES AND ACTIVITIES:

Processing Tomato Field Day Committee (1967-present)
Processing Tomato Field Day Chairman (1973, 1975, 1977, 1979)
Ohio Task Force for Enterprise Opportunities in Agronomic and Horticulture Crops (1969-1978)
Ohio Processing Tomato Industry Steering Committee (1974-present)
Farm Science Review - presented exhibits (1967-present)
Ohio Cannery & Food Processors Association - Participation in programs and assistance with display of processed new varieties and advanced breeding lines (1968-present)
Appointment to serve in Category II of the Graduate Faculty of Horticulture (1969-present)
Department Graduate Committee (1969-1971)
Department Greenhouse Committee (1972-1979)
Department Research Center News Editor (1974-present)
Department Long Range Farm Committee (1973-present)
Dean and Director's Reception for New Faculty Committee (1978-1980)

NON-UNIVERSITY PROFESSIONAL ACTIVITIES:

Tomato Breeders Round Table (Meets annually and is a group of over 100 scientists representing all the major processing companies, private seed companies, state agricultural experiment stations, and the USDA who are working on tomatoes.) (1960-present).

TBRT Steering Committee member (1964, 1966, 1973, 1975, 1978)
TBRT Chairman Local Arrangements (1972)
TBRT Program Chairman at Indianapolis, IN (1976)

ASHS Awards Publication Review Committee (1971-1974)
ASHS Placement Service Committee (1969-1972)
ASHS Vegetable Breeding & Varieties Committee working group (1976-present)

PUBLICATIONS:

Journal Articles

Berry, S.Z. and W.A. Gould. 1977. 'Ohio 763' Tomato. HortSci. 12(2):169.
Berry, S.Z. and W.A. Gould. 1979. 'Ohio 7663' Tomato. HortSci. 14(4):550-551.

Technical Article

George, W.L. and S.Z. Berry. 1975. Genetics and breeding of processing tomatoes. Chap. III IN Tomato Production, Processing and Quality Evaluation by W.A. Gould. The AVI Publishing Co., Inc.

Other Published Materials

Berry, S.Z. and W.A. Gould. 1974. Evaluation of processing tomato cultivars for mechanical harvest in 1973. OARDC Res. Sum. 72:1-3.

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Other Published Materials (cont.)

- Berry, S.Z. and W.A. Gould. 1975. Evaluation of tomato breeding lines and cultivars for mechanical harvest in 1974. OARDC Res. Sum. 81:1-4.
- Berry, S.Z. and W.A. Gould. 1976. Notice of release of the machine harvestable whole-pack canning tomato variety Ohio 736. Dept. of Hort. OARDC.
- Berry, S.Z. and W.A. Gould. 1976. Ohio's Processing Tomato Breeding Program. Ohio Report 60:1.
- Berry, S.Z. and W.A. Gould. 1976. New Tomato Variety. Ohio Report 61:93.
- Berry, S.Z. and W.A. Gould. 1977. Evaluation of processing tomato breeding lines and cultivars for mechanical harvesting and quality in 1976. OARDC Hort. Dept. Ser. 443:17-22.
- Berry, S.Z. and W.A. Gould. 1978. Evaluation of processing tomato breeding lines and cultivars for mechanical harvesting and quality in 1977. OARDC Hort. Dept. Ser. 447:1-5.
- Gould, W.A., Stone, W., Mount, J., Witt, L., Yamada, Y., and Berry, S.Z. 1978. Evaluation of tomato cultivars for processing. OARDC Res. Circ. 240:3-6.
- Berry, S.Z. and Gould, W.A. 1979. Evaluation of processing tomato breeding lines and cultivars for mechanical harvesting and quality in 1978. OARDC Hort. Dept. Ser. 459:1-8.

MAJOR "OUT OF STATE" SPEAKING ENGAGEMENTS:

Indiana Food Processors' Association Annual Meeting
Tomato Breeders' Round Table Annual Meeting, Toronto, Canada
ASHS Poster Session Chairman 1979 Annual Meeting
State of Ohio Representative NC-7 Technical Committee-New Plants (1978-present)
NC-7 Vegetable Crops Subcommittee (1972-present)

PAPERS PRESENTED AT PROFESSIONAL MEETINGS:

Ohio 736 new tomato cultivar. TBRT 1977, Toronto, Canada.
Ohio 7663 new tomato cultivar. TBRT 1979, Ames, Iowa.
New processing tomato variety developments. 1978. Ohio Food Processors Assn.

SCIENTIFIC AND PROFESSIONAL SOCIETIES:

Tomato Genetics Cooperative (1953-present)
American Society of Horticultural Science (1955-present)
American Phytopathological Society (1957-present)
Sigma Xi (1956-present)
Tomato Breeders Round Table (1960-present)

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GRANT OR GIFT SUPPORT RECEIVED:

| <u>Year</u> | <u>Source</u> | <u>Purpose</u> | <u>Amount</u> |
|-------------|----------------------------------|--|---------------|
| 1975 | Ohio Food Processors Assn. | To help construct plastic greenhouse for growing breeding trial plants at Northwest Branch OARDC | \$5,000 |
| 1978-80 | Kagome Co., Ltd. Tokyo, Japan | A full time Research Associate to help provide technical assistance to the research program. | ---- |

NAME: Roland C. Blake DATE OF BIRTH: March 8, 1920

TITLE: Adjunct Associate Professor AGE: 59
Research Horticulturist

ASSIGNMENT: O.A.R.D.C. and U.S.D.A, SEA/AR 100%

EDUCATION:

| <u>Degree</u> | <u>Year</u> | <u>Institution</u> | <u>Major</u> |
|---------------|-------------|-------------------------|--------------------------------|
| B.S. | 1949 | University of Maine | Horticulture |
| Ph.D. | 1954 | University of Minnesota | Horticulture Plant Breeding |

POSITIONS HELD:

1973-1979 Research Horticulturist, US Dept. of Agr., SEA/AR, Wooster, OH
 1959-1973 Research Horticulturist, USDA, ARS, Carbondale, IL
 1957-1959 Research Horticulturist, USDA, ARS, Medford, OR
 1954-1957 Assistant Horticulturist, Washington State College,
 Northwestern Wash. Exp. Sta.
 Mt. Vernon, WA
 1949-1954 Graduate Student, University of Minnesota
 1946-1949 Student, University of Maine
 1942-1946 US Air Force

YEARS AT THE OHIO STATE UNIVERSITY: 6

RESIDENT INSTRUCTION:

Courses taught past five years: None
 Undergraduate advisees: None
 Student Organizational Involvements: None
 Graduate Study Involvements: None

RESEARCH ACTIVITIES:

NRP (National Research Program) 20010 (95%)
 WRU No. 3307-20010
 Breeding and Production of Fruit, Nut and Specialty Crops.
 Objective: Develop high quality pear cultivars resistant to fire
 blight and pear psylla; reduce pesticide treatments.
 This project is closely integrated with the USDA Pear Breeding
 project at Beltsville and Kearneysville, West Virginia
 State Project No. OH 000438-S (5%)
 Evaluation of Promising Pear Selections and Cultivars for Ohio

O.C.E.S. INVOLVEMENTS:

None officially; minor involvement in answering inquiries about fruits and participating in Fruit Schools.

PUBLICATIONS:

Journal Articles:

van der Zwet, T., W.A. Oitto and R.C. Blake. Fire blight resistance in pear cultivars. HortScience Vol. 9(4), August 1974.

Thompson, J.M., T. van der Zwet, A.D. Draper and R.C. Blake. Evidence of cytoplasmic and genetic male sterility in pears. Jour. Hered. 67:339-346, 1976.

Technical Articles:

van der Zwet, T., W.R. Zook and R.C. Blake. The USDA Pear breeding program. I. Emasculation and pollination. Fruit Var. Jour. Vol. 31, No. 4, 1977.

van der Zwet, T., R.C. Blake and R.H. Zimmerman. The USDA Pear Breeding program. II. Seedling evaluation. Fruit Var. Jour., Vol. 33, No. 2, 1979.

Blake, R.C. and T. van der Zwet. The USDA Pear Breeding program. III. Fruit evaluation. Fruit Var. Jour. Vol. 33, No. 4, 1979.

Other Published Materials:

Blake, R.C. Notice to nurserymen related to the naming and release for propagation of Delite, a new strawberry cultivar. USDA, ARS and Southern IL Univ. Leaflet, Jan. 1974.

MAJOR "OUT OF STATE" SPEAKING ENGAGEMENTS:

NONE

UNIVERSITY, COLLEGE AND DEPARTMENT COMMITTEES AND ACTIVITIES:

Department of Horticulture, Long Range Farm Committee
Farm Science Review 1973-1977
ASHS-ASPP Tour Committee 1979
Hort II & III Sub-committee
OARDC Safety Committee (member) 1979-1980
Department of Horticulture (Chairman)
NC22 Small Fruit Committee, USDA representative 1973-1978

NON-UNIVERSITY PROFESSIONAL ACTIVITIES:

NONE

PAPERS PRESENTED AT PROFESSIONAL MEETINGS:

Pear Breeders Coop. 1977, 1979
Secretary 1975-1977
President 1977-1979
Review of USDA Pear Breeding Program.

SCIENTIFIC AND PROFESSIONAL SOCIETIES:

American Society for Horticultural Science
American Pomological Society
Alpha Zeta

HONORS AND AWARDS:

NONE

GRANT OR GIFT SUPPORT RECEIVED:

NONE, Federally Funded.

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NAME: William M. BrooksDATE OF BIRTH: July 7, 1943TITLE: ProfessorAGE: 56ASSIGNMENT: O.A.R.D.C. 0% O.S.U. 0% O.C.E.S. 100%EDUCATION:

| <u>Degree</u> | <u>Year</u> | <u>Institution</u> | <u>Major</u> |
|---------------|-------------|---------------------------|---------------------|
| M. Sc. | 1957 | The Ohio State University | Horticulture |
| B.S.A. | 1954 | Ohio University | General Agriculture |

POSITIONS HELD:

Professor - 1977 to present. Department of Horticulture, The Ohio State University, Columbus, Ohio.

Associate Professor - 1966 to 1977. Department of Horticulture, The Ohio State University, Columbus, Ohio.

Assistant Professor - 1958 to 1966. Department of Horticulture, The Ohio State University, Columbus, Ohio.

Instructor - 9/56 - 6/58. Department of Horticulture, West Virginia University and West Virginia Agricultural Experiment Station, Morgantown, West Virginia.

Research Assistant - Summer of 1953, 1954 and 1955. Department of Horticulture, Ohio Agricultural Research and Development Center, Custer, Ohio.

Farm Placement Supervisor - 1949 to 1951, Ohio Employment Service, Toledo, Ohio.

Military Service - U.S. Army Air Force, January 1943 to 1945. Twenty-one months in ETO; Honorable Discharge, December 1945.

Office Manager - 11/1941 - 1/1943. Bursley Wholesale Grocery Co., Lima, Ohio.

YEARS AT THE OHIO STATE UNIVERSITY: 21RESEARCH ACTIVITIES:

State Project 444 - Evaluation of Promising Cultivar and Selection of Certain Vegetable Crops for Fresh Market.

Help conduct evaluation of sweet corn and melon cultivars at Ohio State University and Vegetable Branch of OARDC at Fremont.

O.C.E.S. INVOLVEMENT:

1. Provide commercial fresh market and greenhouse vegetable growers with the best technical information available. Also to provide commercial bedding plant growers with the best technical information available.
2. To assist the above named clientele understand the proper and safe use of all pesticides.

O.C.E.S. INVOLVEMENT (continued)

3. The above objectives have been accomplished through the use of bulletins, leaflets, newsletters, press releases, state, area and local meetings; and the use of demonstration and research plots.

PUBLICATIONS:

- Uttinger, J.D., W.M. Brooks and R.D. Touse. 1979. Effect of Wood Ashes on Garden Soil. LF-CP 24-79. O.C.E.S.
- Uttinger, J.D., W.M. Brooks and E.C. Wittmeyer. 1979. Growing Watermelons in the Home Garden. LF-VG 26-79. O.C.E.S.
- Uttinger, J.D., W.M. Brooks and E.C. Wittmeyer. 1979. Growing Eggplant in the Home Garden. LF-VG 24-79.
- Uttinger, J.D., W.M. Brooks and E.C. Wittmeyer. 1979. Growing Beets in the Home Garden. LF-VG 24-79.
- Brooks, William M. et. al. 1979. Mulches for the Home Grounds. O.C.E.S. Bulletin 526.
- Brooks, William M. et. al. 1979. Tips on Growing Ornamental and Vegetable Bedding Plants. MM-265. O.C.E.S.
- Uttinger, J.D., W.M. Brooks and E.C. Wittmeyer. 1979. Home Vegetable Gardening. Bulletin 287. O.C.E.S.
- Lines, Allan, W.M. Brooks, et. al. 1979. Ohio Crop Enterprise Budgets - Specialty Crops. MM-389. O.C.E.S.
- Kretchman, Dale W., William M. Brooks, et. al. 1979. 1978 Muskmelon Cultivar Evaluation Trials. Horticulture Series 468. OARDC.
- Uttinger, J.D., W.M. Brooks and E.C. Wittmeyer. 1978. Growing Carrots in the Home Garden. LF-VG 19-78.
- Uttinger, J.D., W.M. Brooks and E.C. Wittmeyer. 1978. Growing Celery in the Home Garden. LF-VG 20-78.
- Uttinger, J.D., W.M. Brooks and E.C. Wittmeyer. 1978. Growing Muskmelons in the Home Garden. LF-VG 21-78.
- Brooks, William M. et. al. 1978. Vegetable Varieties for Ohio Home Gardeners O.C.E.S. Leaflet 2-100.
- Kretchman, Dale W., William M. Brooks, et. al. 1978. 1977 Muskmelon Cultivar Evaluation Trials. Horticulture Series 457, OARDC.
- Uttinger, J.D., William M. Brooks, et. al. 1978. 1977 Report of Fresh Market Staked Tomato Study. Horticulture Series 448. OARDC.
- Brooks, William M., et. al. 1979. 1978 Evaluation of Sweet Corn Cultivars. Department of Horticulture Series 466. OARDC.

- Utzinger, J.D., W.M. Brooks and E.C. Wittmeyer. 1977. Growing Peppers in the Home Garden. LF-VG 18-77.
- Utzinger, J.D., W.M. Brooks and E.C. Wittmeyer. 1977. Growing Onions in the Home Garden. LF-VG 17-77.
- Utzinger, J.D., W.M. Brooks and E.C. Wittmeyer. 1977. Growing Cucumbers in the Home Garden. LF-VG 16-77.
- Brooks, William et. al. 1977. 1977 Evaluation of Sweet Corn Cultivars - Columbus. Department of Horticulture Series 449. OARDC.
- Brooks, William M. 1977. Greenhouse Growing Techniques with Soil Cultures. Proceedings of An International Symposium on Controlled Environmental Agriculture, pp. 190-197. Environmental Research Laboratory, Univ. of Arizona, Tuscon, Arizona.
- George, William L., Jr., William M. Brooks, et. al. 1977. Fresh Market Staked Tomatoes Trial in 1976. Horticulture Series 442. OARDC.
- Utzinger, J.D., W.M. Brooks and E.C. Wittmeyer. 1976. Growing Turnips and Rutabagas in the Home Garden. OCES Vegetable Fact Sheet. 2 p.
- Brooks, William M., et. al. 1976. 1975 Evaluation of Sweet Corn Cultivars. Department of Horticulture Series 429, OARDC.
- Brooks, William M. et. al. 1976. 1976 Evaluation of Sweet Corn Cultivars - Columbus. Department of Horticulture Series 439. OARDC.
- Mosley, Alvin R. and William M. Brooks. 1976. Sweet Corn Variety Trials, 1975, Green Springs. Department of Horticulture Series 443, OARDC.
- Utzinger, J.D. and W.M. Brooks. 1975. Fertilizing Vegetable Garden Soils. LF-VG 11-75.
- Mosley, Alvin R. and W.M. Brooks. 1975. 1974 Sweet Corn Cultivar Trials, Green Springs Crop Research Unit. Department of Horticulture Series 415, OARDC.
- Brooks, William M. 1975. Horticultural Considerations Before Entering the Greenhouse Vegetable Business. TVA Greenhouse Vegetable Workshop Proceedings. pp. 38-39. TVA, Muscle Shoals, Alabama.
- Brooks, William M. et. al. 1974. 1973 Evaluation of Sweet Corn Cultivar. Department of Horticulture Series 402, OARDC.
- Brooks, William M. et. al. 1974. 1974 Evaluation of Sweet Corn Cultivars. Department of Horticulture Series 410, OARDC.
- Tayama, Harry K. and William M. Brooks. 1974. Use of Alar (B-Mine) on Petunias and Tomatoes. Bulletin 531, Ohio Florist's Association.

OUT OF STATE SPEAKING ENGAGEMENTS:

Indiana Vegetable Growers Association, Purdue University
New England Vegetable Growers Association, Waltham, Massachusetts
Department of Horticulture, University of Kentucky
Vegetable Growers Meeting, Syracuse, New York

OUT OF STATE SPEAKING ENGAGEMENTS:(continued)

Department of Horticulture, Pennsylvania State University
TVA Greenhouse Vegetable Conference, Chattanooga, Tennessee
Bedding Plants, Inc., Lansing, Michigan
International Symposium on Controlled Environment Agriculture,
Tuscon, Arizona

UNIVERSITY, COLLEGE AND DEPARTMENT COMMITTEES AND ACTIVITIES:

Extension Committee
Farm Committee
Pesticide Assessment Committee
Greenhouse Vegetable Industry Committee
Agriculture Development for China Task Force
National Greenhouse Vegetable and Energy Conference Chairman

SCIENTIFIC AND PROFESSIONAL SOCIETIES:

American Institute of Biological Sciences
American Society for Horticultural Sciences
Bedding Plants Incorporated
National Agricultural Plastics Association
Ohio Extension Professors Association

HONORS AND AWARDS:

Sigma Xi
Gamma Sigma Delta
Epsilon Sigma Phi
Emblem with Diamond for Distinguished Service to NJHA
Distinguished Service Award for Ohio NJHA
Appreciation Service Award from Toledo Area Vegetable Growers Association

COMMENTS:

Many changes are accomplished through the use of newsletters, working directly with and through community groups and through the use of demonstrations on producers farms with an accompanying tour or field day to observe the results. In working with greenhouse vegetable growers, bedding plant growers and growers of vegetables for fresh market it has been found that follow through, consistency and willingness to go the extra mile is very important. Providing sound and consistent advice and information has been the key to early adoption of practices.

NAME: Fred K. Buscher

DATE OF BIRTH: July 20, 1925

TITLE: Area Extension Agent, Horticulture

AGE: 54

ASSIGNMENT: O.A.R.D.C. _____ O.S.U. _____ O.C.E.S. 100%

EDUCATION:

| <u>Degree</u> | <u>Year</u> | <u>Institution</u> | <u>Major</u> |
|---------------|-------------|---------------------------|------------------------|
| B.S. | 1950 | The Ohio State University | Landscape Horticulture |
| M.S. | 1965 | The Ohio State University | Landscape Horticulture |

POSITIONS HELD:

| | |
|--------------|-------------------------------|
| 1956-present | Cooperative Extension Service |
| 1956-50 | Self-employed |

YEARS AT THE OHIO STATE UNIVERSITY: 24

RESIDENT INSTRUCTION:

No official Resident Instruction activity, but have, on occasion, presented individual class presentations.

RESEARCH ACTIVITIES:

No official research assignment, but have research with other faculty relating to plant materials and the over-wintering of container grown plants.

O.C.E.S. INVOLVEMENTS:

Nursery production, turfgrass management, residential landscape design, grounds maintenance.

PUBLICATIONS:

Technical Articles

The International Plant Propagators Society, 1978. USDA Yearbook of Agriculture. Course Manuals for Landscape Design Short Courses.

Other Published Materials

Buscher, Fred K. 1975. Planting the home foundation. Landscape Facts, OSU.

Buscher, Fred K. 1975. Hybrid perpetual roses in the landscape. Landscape Facts. OSU.

Buscher, Fred K. 1975. Microfoam technology: winter storage of container nursery stock. Turf and Landscape Day, Field Day Rpt., OARDC p. 47-50.

Buscher, Fred K. 1975. Planting container-grown plants. Turf and Landscape Day, Field Day Rpt. OARDC p. 19-20.

-2-

Other Published Materials (cont.)

- Buscher, Fred K. 1975. Foundation planting in the landscape design. Turf and Landscape, Field Day Rpt. pp. 21-22.
- Buscher, Fred K. and Jot D. Carpenter. 1976. A brief history of the foundation planting. Wooster Area Center, Ohio Coop. Ext. Ser. OSU. pp. 1-15.
- Buscher, Fred K. 1976. Landscape design school. Landscape Industry, Brentwood Pub. p. 46.
- Buscher, Fred K. 1975. Container transplants need TLC to survive the ordeal. Cleveland Plain Dealer, Forest City Pub. Co.
- Buscher, Fred K. 1976. Microfoam technology. The Amer. Peony Soc. Bul. pp. 39-42.
- Buscher, Fred K. and Jot D. Carpenter. 1977. There is nothing to hide but the foundation plant persists. Landscape Arch. 67(5):413-416.
- Buscher, Fred K. 1977. Residential landscape design--its time to change. Turf & Landscape Day Field Day Rpt. OARDC pp. 26-28.
- Buscher, Fred K. and H.A.J. Hoitink. Potential toxicity problems associated with bark mulch. Turf & Landscape Day Field Day Rpt., OARDC p. 5.
- Buscher, Fred K. 1977. Planting container grown plants. The Garden Center Bul. pp. 12-13.
- Buscher, Fred K. 1977. Landscape Construction with brick pavements. Landscape Facts, OSU.
- Buscher, Fred K. 1977. Native roses for the landscape. Landscape Facts. OSU.
- Buscher, Fred K. 1977. Foundation planting:boring and banal. Newsletter, Amer. Hort. Soc.
- Buscher, Fred K. 1977. Planting container grown plants. Landscape Facts, OSU.
- Buscher, Fred K. 1978. Functional uses of plants in the landscape. Landscape Facts, OSU.
- Buscher, Fred K. 1978. Landscape construction with steps. Landscape Facts, OSU.
- Buscher, Fred K. 1978. Moss roses for the landscape. Landscape Facts, OSU.
- Buscher, Fred K. 1978. Accompanying land usage failed to keep pace with archi-tech revolution. The Plain Dealer, Forst City Pub. Co. P. 3D.
- Buscher, Fred K. and Jot D. Carpenter. 1978. There is nothing to hide but foundation planting persists. The Green Thumb. Univ. KY pp. 10-14.
- Buscher, Fred K. 1979. The importance of soil testing. Landscape Facts. OSU.

-3-

Other Published Materials (cont.)

- Buscher, Fred K. 1979. Planting rhododendron and azaleas. Landscape Facts, OSU.
- Buscher, Fred K. 1979. China roses for the landscape. Landscape Facts, OSU.
- Buscher, Fred K. 1979. Pruning trees. Morning Journ. East Liverpool Daily Leader, p. 22.
- Buscher, Fred K. 1979. Pruning pine and spruce in the landscape. Landscape Facts. OSU.
- Buscher, Fred K. 1979. Pruning and training newly planted trees. Landscape Facts, OSU.
- Buscher, Fred K. and Jot D. Carpenter. 1979. Landscape around home-get help, plan carefully. 1979 Yearbook of Agric. pp. 105-115.
- Buscher, Fred K. 1979. Staking and guying trees. Landscape Facts. OSU.
- Buscher, Fred K. 1980. Gallica roses for the landscape. Landscape Facts. OSU.
- Buscher, Fred K. 1980. Landscape design composition principles. Landscape Facts, OSU.
- Buscher, F.K. 1980. Landscape planning for the homeowner. Landscape Facts. OSU.

MAJOR "OUT OF STATE" SPEAKING ENGAGEMENTS:

Chicago IL (IPPA), Midwest Turf Grass Conf at Purdue Univ.; Columbia, MD.; Milwaukee, WI; Phoenix, AZ; Seattle WA; Penn State Univ.

UNIVERSITY, COLLEGE AND DEPARTMENT COMMITTEES AND ACTIVITIES:

Turf & Landscape Day Committee
OARDC Grounds Committee
OARDC Rose Garden Planning Committee

NON-UNIVERSITY PROFESSIONAL ACTIVITIES:

Director Wayne County Unit American Cancer Society
Urban Renewal Design Review Board for City of Wooster
Board of Trustees, Ohio Turfgrass Foundation
Bicentennial Committee City of Wooster
Wayne County Home Builders Association Garden Show-Design Committee

PAPERS PRESENTED AT PROFESSIONAL MEETINGS:

IPPS Determination of Percent Air-Filled Pore Space

SCIENTIFIC AND PROFESSIONAL SOCIETIES:

American Society for Horticultural Science
American Society of Landscape Architects
International Plant Propagators Society

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SCIENTIFIC AND PROFESSIONAL SOCIETIES (cont.)

American Rose Society
 American Horticulture Society
 International Society of Arboriculture
 National Association of County Agricultural Agents

HONORS AND AWARDS:

Search for Excellence Award
 NACAA Distinguished Service Award
 NACAA Award Recipient O.M. Scott Turf Grass Study Tour
 Recognition Award Lake & Cuyahoga Co. Nurserymen's Association

GRANT OR GIFT SUPPORT RECEIVED:

| <u>Year</u> | <u>Source</u> | <u>Purpose</u> | <u>Amount</u> |
|-------------|---------------------|------------------|---------------|
| 1978-79 | Kavanagh Foundation | Landscape Design | \$3,000 |

COMMENTS

Area extension educational programs in commercial landscape horticulture are concerned with the interpretation, evaluation, cognitive and manipulative skills needed for owners, managers and employees in the nursery-landscape industry.

Major Accomplishments:

Community and Municipal Street Tree Conferences
 Nursery Business School for Beginners
 Area Nursery and Garden Store Newsletter
 Landscape Design Short Courses I, II, III, IV
 Area Horticultural Trade Meeting and Show
 Area Nursery Equipment Field Day
 Landscape Contractors Design-Build Field Day
 Heritage Roses Day at OARDC
 Shade Tree Diagnostic Evaluation Workshop
 Area Pruning Clinics - Warren-Canton
 Landscape Clinics - Warren-Canton
 Nursery Subject Matter Twilight & Bull Session Meeting

NAME: Garth Arthur Cahoon

DATE OF BIRTH: December 23, 1924

TITLE: Professor

AGE: 54

ASSIGNMENT: O.A.R.D.C. 55%

O.S.U. _____

O.C.E.S. 45%

EDUCATION:

| <u>Degree</u> | <u>Year</u> | <u>Institution</u> | <u>Major</u> |
|---------------|-------------|-----------------------|--------------|
| B.S. | 1950 | Utah State University | Tech. Soils |
| Ph.D. | 1954 | UCLA | Horticulture |

POSITIONS HELD:

| | |
|--|-----------|
| Professor, Horticulture, OARDC, OSU & OCES | 1967-Date |
| Assistant Professor, Horticulture, OARDC, OSU & OCES | 1963-1967 |
| Assistant Horticulturist, Univ. of Calif, Riverside | 1954-1963 |
| Junior Horticulturist, Univ. of Calif., Riveside | 1953-1954 |

YEARS AT THE OHIO STATE UNIVERSITY: 16

RESIDENT INSTRUCTION:

None

Undergraduate Advisees: None

Student Organizational Involvements: None

Graduate Study Involvements:

Number of Advisees Past Five Years:

M.S. 2 Ph.D. 1

Number of Program Completions Past Five Years:

M.S. 2 Ph.D. 1 in 1980 (Apr-May)

RESEARCH ACTIVITIES:

| | |
|---|-----|
| H-526 - Mineral Nutrition of Selected Deciduous Fruit Crops | 23% |
| H-442 - Influence of Climate and Selected Cultural Practices on Growth, Production and Quality of Grapes | 32% |

O.C.E.S. INVOLVEMENTS:

| | | |
|---|---|-----|
| Extension Specialist - Grapes | } | 45% |
| Extension Specialist - Foliar & Soil Analysis - Fruit | | |

PUBLICATIONS:Journal Articles (Referreed)

Cahoon, G.A., Nelson Shaulis and John Barnard. 1977. Effect of daminozide on Concord grapes. J. Amer. Soc. Hort. Sci. 102:218-222.

Technical Articles

Cahoon, G.A. 1976. An 8-year comparison of Umbrella Kniffin and Single Curtain training systems on Concord grapes. OARDC Res. Cir. 220:29-33.

Cahoon, G.A. 1976. Status of Vitis vinifera in Ohio. Vinifera Wine Growers Journal 3(3):216-218.

Cahoon, G.A. and D.S. Padda. 1977. Prospects for growing grapes in the U.S. Virgin Islands. Virgin Is. Agr. Expt. Sta. Rpt. No. 10.

Ferree, D.C. and G.A. Cahoon. 1978. Problems of nitrogen nutrition of mature apple trees on M9 rootstock. Fruit Crops--1978: A Summary of Research Res. Circ. 239:9-12.

Stang, E.J., D.C. Ferree and G.A. Cahoon. 1978. Effects of post bloom SADH, Urea, Dormant Zinc, and Zinc-containing fungicides on fruit set and foliar nutrient content in 'Delicious' apple. Fruit Crops--1978: A Summary of Research. Res. Circ. 239:13-15.

Cahoon, Garth A. 1978. Vineyard preparation and planting. The Vinifera Wine Growers Journal 5(4):165-170.

Cahoon, Garth A. 1978. Principles of pruning and training. The Vinifera Wine Growers Journal 5(4):171-178.

Other Published Materials

Cahoon, G.A. 1975. Effects of plastic mulch, trickle irrigation, and trellising systems on the growth and productivity of grapes. OARDC Fruit Crops Field Day Rpt. pp. 11-14.

Cahoon, G.A. 1976. Experiences with Geneva Double Curtain system. Proc. Grape-Wine Short Course. Hort. Ser. 438:31-38.

Cahoon, G.A. 1976. Cultivar evaluations for wine: growth and productivity. Proc. Grape-Wine Short Course. Hort. Ser. 438:31-38.

Cahoon, G.A. 1976. Varietal selection of grapes. Proc. Virginia Grape Prod. Short Course. pp. 25-30.

Cahoon, G.A. 1976. Principles of pruning and training. Proc. Virginia Grape Prod. Short Course pp. 36-44.

Cahoon, G.A. 1977. Grape cultivars for wine. Proc. Ohio Grape-Wine Short Course. Hort. Ser. 466:27-31.

Cahoon, G.A. 1977. Cultural practices in relation to vigor, productivity, and winter hardiness. Proc. Ohio Grape-Wine Short Course. Hort. Ser. 455:57-66.

PUBLICATIONS:

Other Published Materials:

- Cahoon, G.A. 1977. Pruning and training grape vines. Proc. Virginia Grape Prod. Short Course.
- Cahoon, G.A. 1977. Basic viticulture: some considerations for the beginner. Proc. Virginia Grape Prod. Short Course.
- Cahoon, Garth A. 1978. Grape weed control with herbicides. Proc. Ohio Grape-Wine Short Course. Hort. Dept. Ser. 460:69-74.
- Cahoon, G.A. 1978. Wines and vines report on Ohio grape production. Wines and Vines. Vol. 59(2):28.
- Cahoon, G.A. 1978. Cultural practices in relation to vigor, productivity, and winter hardiness. Virginia Grape Prod. Short Course (in press).
- Cahoon, Garth A. 1979. Fundamentals of crop control. Proc. Ohio Grape-Wine Short Course. Hort. Dept. Ser. 472.

MAJOR "OUT OF STATE" SPEAKING ENGAGEMENTS:

- Virginia Grape Production Short Course, Blacksburg, Virginia, 10/23-25/78
- Virginia Grape Production Short Course, Blacksburg, Virginia, 11/8-11/77
- Virginia Grape Production Short Course, Blacksburg, Virginia, 10/27-30/76
- Kansas State Hort. Society Annual Meetings, Topeka, Kansas, 2/5/76
- Missouri State Hort. Society Annual Meetings, Columbus, Missouri, 1/21/76
- Tennessee Viticultural & Enological Society, Chattanooga, Tennessee 10/30/75
- Indiana Grape-Wine School, Nashville, Indiana 3/15/75

UNIVERSITY, COLLEGE AND DEPARTMENT COMMITTEES AND ACTIVITIES:

- Soil & Plant Analysis Committee, 1975-78
- Research-Extension Analytical Laboratory (College) 1979-80
- Department Tenure & Promotion 1978-79
- Tenure & Promotion Grievance (College) 1978-1980
- Fruit Industry Committee (College) 1975-1980, Chairman, 1979-80
- International Affairs Advisory Committee 1975-1982
- NEC-9 Committee - Grapes 1975-date

NON-UNIVERSITY PROFESSIONAL ACTIVITIES:

- FAO Consultant to Somalia Democratic Republic - 1976-1979
- Consultant -Virgin Island Agricultural Experiment Station, St. Croix, U.S. Virgin Islands - 1975 and 1979
- Chairman - ASHS Small Fruits Working Group - 1979-1980
- Public Affairs Committee 1977-1978
- ASHS Representative to Council on Soil Testing and Plant Analysis - 1975-1978
- Chairman Mineral Nutrition Committee - 1975-1978
- Consultant - Golden Raintree Winery - Indiana - 1975-1977
- Study Tour of Research Institute, wineries and vineyards in France & Germany 1975
- Ohio State Horticulture Society Annual Meetings - 1975

NON-UNIVERSITY PROFESSIONAL ACTIVITIES (cont.):

Communications in Soil Science & Plant Analysis, Editorial Board, 1970-date
 Eastern Grape Grower; Technical Advisory Board, 1976-date
 Ohio Wine Producers Association, Board of Directors, 1976-date
 American Society of Enology & Viticulture, Editorial Review Committee, 1979-

PAPERS PRESENTED AT PROFESSIONAL MEETINGS:

American Society for Horticultural Science - Columbus, Ohio -
 "Glyphosate Toxicity on Grape Vines" - 1979

 American Society of Enologists - Eastern Division - Erie, Pennsylvania - 1977

 American Society for Horticultural Science - Guelph, Ontario, Canada -
 "Foliar Analyses as an Extension Tool" - 1974

SCIENTIFIC AND PROFESSIONAL SOCIETIES:

American Society for Horticultural Science
 American Society of Enology (also Eastern Section)
 Ohio State Horticultural Society
 Council on Soil Testing & Plant Analysis
 International Society for Horticultural Science
 Ohio Wine Producers Association

HONORS AND AWARDS:

Alex Laurie Award - ASHS
 Union Pacific Scholarship
 "Fellow", American Society for Horticultural Science
 Alpha Zeta
 Sigma Xi
 Gamma Sigma Delta
 Epsilon Sigma Phi

GRANT OR GIFT SUPPORT RECEIVED:

| <u>Year</u> | <u>Source</u> | <u>Purpose</u> | <u>Amount</u> |
|-------------|---------------------------|--------------------------|---------------|
| 1978 | Allied Chemical Company | Fruit Nutrition Studies | \$1,000 |
| 1977 | Monsanto Chemical Company | Herbicide Studies | 250 |
| 1976 | Abbott Laboratories, Inc. | Growth Regulator Studies | 1,000 |
| 1976 | AmChem Company | Growth Regulator Studies | 300 |

Name: James L. Caldwell

Date of Birth: 6/13/30

Title: Extension Floriculturist

Age: 49

Assignment: O.C.E.S. 100%

Education:

| | | |
|-----------|---------------------------|--------------|
| B.S. 1952 | The Ohio State University | Agriculture |
| M.S. 1953 | The Ohio State University | Horticulture |

Positions Held:

| | |
|--------------|--|
| 1956-present | Extension Floriculturist |
| 1953-56 | Superintendent, Floriculture Greenhouses & Gardens |

Resident Instruction:

None

Research Activities:

None

O.C.E.S. Involvement:

To educate the home gardener so that they will be able to provide the proper cultural practices for the landscape plants growing in the landscape around the home.

To help the home gardener do a better job of selecting and caring for annual flowering plants. To help home gardeners in the successful selection and growing of house plants. To develop an interest and appreciation for good basic home beautification techniques among home owners in Ohio. To help statewide organizations identify needs in order to present the most effective educational programs.

To create an awareness among urban and rural people of what Environmental Improvement is and how it can improve the communities in which they work and live.

Publications

Journal Articles:

None

Technical Articles:

None

Other Published Material:

Landscape Facts published by The Ohio Cooperative Extension Service, The Ohio State University, Columbus, Ohio.

Other Published Material (con't)

- The Best of the Modern Roses, LF-R07-1974.
Care and Selection of Foliage Plants, LF-FB-9-1974.
Care of Geraniums in the Home Landscape, LF-FB2-1979.
Garden Chrysanthemums in the Home Landscape, LF-FB5-1979.
Growing Delphiniums in the Home Landscape, LF-FB24-1978.
Growing Peonies in the Home Landscape, LF-FB7-1979.
Growing Petunias in the Home Landscape, LF-FB8-1973.
Planting Hardy Bulbs, LF-FB1-1969.
Selection and Care of Plants for Hanging Baskets, LF-FB14-1975.
Summer Flowering Bulbs in the Home Landscape, LF-FB6-1972.
Ornamental Plants for Shade, LF-OR15-1975.
Planting Garden Roses, LF-R01-1979.
Pruning Garden Roses, LF-R02-1969.
Winter Protection for Garden Roses, LF-R03-1979.
Watering Newly Planted Ornamental Plants LF-CP10-1971.
Care of Holiday Plants During the Summer, LF-FB4-1971.
- Pruning Landscape Plants by James L. Caldwell, E.M. Smith, and K.W. Reisch, Bulletin 543, Cooperative Extension Service, The Ohio State University. 1972. 20 pages.
- Your Lawn by James L. Caldwell and Richard R. Davis, Bulletin 271, Cooperative Extension Service, The Ohio State University. 1956. 32 pages.
- Chrysanthemums For Your Garden by James L. Caldwell and D.C. Kiplinger, Leaflet 87, Cooperative Extension Service, The Ohio State University, 1960.
- Care and Selection of Foliage Plants by James L. Caldwell and D.C. Kiplinger, Leaflet 114, Cooperative Extension Service, The Ohio State University, 1963.
- Gardener's Mailbag by James L. Caldwell, The Columbus Dispatch, 1967 - . 624 Articles.
- Your Garden by James L. Caldwell, The Columbus Dispatch, 1976. 1976 - . 156 Articles.
- Things To Do This Week by James L. Caldwell, The Columbus Dispatch, 1976 - . 156 Articles.
- Garden Section by James L. Caldwell, The Columbus Dispatch, 1956 - . 161 Articles.
- Growing Annual Flowers by James L. Caldwell, 4-H Circular 671, Cooperative Extension Service, The Ohio State University. 1977. 16 pages.
- Growing Bedding Plants by James L. Caldwell, 4-H Circular 670, Cooperative Extension Service, The Ohio State University, 1976. 16 pages.

Major "Out of State" Speaking Engagements:

None

University, College, and Department Committees and Activities:

College of Agriculture - Exhibits and New Uses of Mass Media.
College of Agriculture - Environmental Improvement Awards.
Department of Horticulture - Farm Science Review Chairman - 1979.
College of Agriculture - Central Ohio Home and Flower Show.

Non—University Professional Activities:

Chairman of Registration - American Society of Horticultural Science
Annual Meeting, The Ohio State University, 1979.

Papers Presented at Professional Meetings :

None

Scientific and Professional Societies:

Sigma Xi
Pi Alpha Xi
Phi Epsilon Phi
Ohio Extension Professors Association
American Society for Horticultural Science

Honors and Awards:

Distinguished Science Award - Ohio Association of Garden Clubs, Inc.

Grant or Gift Support Received:

None

Comments:

The educational program for the home gardeners in Ohio is unlimited in scope. The potential audience consists of children who may or may not be involved in 4-H Club programs to the eldest adult. Therefore, many programs have to be used to reach the various audiences. The use of mass media such as television, radio and newspapers presents a very useful method of reaching a large audience with less effort and cost. Many of the objectives of the home garden programs in Ohio (these were mentioned earlier in the report) can be accomplished readily by the use of mass media. However, there is still a need to have the direct approach with an audience in order to "keep in tune" with what is happening. For this reason, a "happy medium" is strived for between the mass media and direct audience approach. These approaches have been found to be successful as witnessed by the number of people attending the meetings as well as those having watched, heard, or read information presented pertaining to the landscape around the home.

The audiences and demand for reliable information pertaining to gardening has increased tremendously over the past 25 years and without a doubt, will increase even more in the future. More efficient methods of communication will have to be developed to handle this increase. More professional help will also be needed on the County as well as State level in order to get the proper job accomplished.

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NAME: David E. Crean

DATE OF BIRTH: February 27, 1937

TITLE: Associate Professor

AGE: 42

ASSIGNMENT: O.A.R.D.C. 25% O.S.U. 75% O.C.E.S.

EDUCATION:

| <u>Degree</u> | <u>Year</u> | <u>Institution</u> | <u>Major</u> |
|---------------|-------------|---------------------------|-----------------|
| B.A. | 1960 | University of Cambridge | Biochemistry |
| M.A. | 1966 | University of Cambridge | Biochemistry |
| Ph.D. | 1969 | The Ohio State University | Food Technology |

POSITIONS HELD:

1975- Associate Professor, Department of Horticulture, The Ohio State University and Ohio Agricultural Research & Development Center
 1969-75 Assistant Professor, Department of Horticulture, The Ohio State University and Ohio Agricultural Research & Development Center
 1967-69 Graduate Research Associate, Department of Horticulture, Ohio Agricultural Research and Development Center
 1960-66 Scientific Officer, The Campden Food Preservation Research Association, Chipping Campden, England

YEARS AT THE OHIO STATE UNIVERSITY: 10

RESIDENT INSTRUCTION:

Courses Taught:

Horticulture 170 - Wine in Western Culture

W-75 (94); Sp-75 (144); Au-75 (78)
 W-76 (83); Sp-76 (130); Au-76 (58)
 W-77 (87); Sp-77 (113); Au-77 (80)
 W-78 (89); Sp-78 (91); Au-78 (57)
 W-79 (74); Sp-79 (75); Au-79 (52)

Horticulture 602 - Pigments and Coloration of Plants

W-75 (6); W-76 (7); W-77 (11); W-78 (8)

Horticulture 603 - Analysis of Horticultural Plant Materials

Sp-77 (14)

Horticulture 642 - Processing of Specialty Horticultural Products

Au-75 (10); Au-76 (11)

Horticulture 649 - Packaging Materials and Methodology

W-77 (10); W-78 (20); W-79 (19)

-2-

Horticulture 670 - Enology I: Principles and Wine Technology

Au-79 (10)

Horticulture 671 - Enology II: Wine Quality and Examination

Sp-77 (6); Sp-78 (8)

Horticulture 804 - Seminar

Au-75 (7); W-76 (7); Sp-76 (8); Au-76 (6); W-77 (5); Sp-77 (10)

Undergraduate Advisees - Autumn 1979 - 2

Graduate Study Involvement:

Number of Advisees Past Five Years (1/1/75 to 1/1/80)

M.S. 3

Ph.D. 0

Number of Program Completions Past Five Years

M.S. 3

Ph.D. 0

RESEARCH ACTIVITIES:

The Adaptation of Food Processing Technologies to the Needs of Less Developed Countries (Tentative - in preparation)

PUBLICATIONS

J.L. Shoup, W.A. Gould, J.R. Geisman and D.E. Crean. 1975. Salt free acidulant Storage of pickling cucumbers. J. Food Sci. 40:689.

T.D. Sydnor, T.A. Fretz, D.E. Crean and M.R. Cobbs. 1975. Photographic estimation of plant size. HortScience 10(3):219.

T.D. Sydnor, D.E. Crean and M.J. Cobbs. 1976. Leaching and water quality on service life of copper-treated burlap. HortScience 11(4):383.

T.A. Fretz, D.E. Crean and T.D. Sydnor. 1979. Slide Presentations. HortScience 14(3):223.

Technical Articles

H.Y. Chi, D.C. Kiplinger, H.K. Tayama, and D.E. Crean. 1976. The effect of nitrate- and ammoniacal-nitrogen on organic nitrogen fractions and free ammonia in the greenhouse chrysanthemum 'Indianapolis Yellow'. Ohio Florists Assn. Bul. No. 557:10.

H. Fenercioglu and D.E. Crean. 1978. Carotene content of green snap beans. Ohio Agric. Res. & Dev. Ctr. Res. Circ. No. 240:44.

I.S. Arkoudilos and D.E. Crean. 1978. Effect of reconditioning on the ascorbic acid content of potato cultivars. Ohio Agric. Res. & Dev. Ctr. Res. Circ. 240:46.

UNIVERSITY, COLLEGE AND DEPARTMENT COMMITTEES AND ACTIVITIES:

University Task Force on Learning
College of Agriculture Minority Affairs Committee
Department of Horticulture Minority Affairs Committee

NON-UNIVERSITY PROFESSIONAL ACTIVITIES:

Episcopal Diocese of Southern Ohio, Task Force on Poverty and World Hunger, Chairman
Ohio Council of Churches, Agricultural and Food Policy Task Force, Chairman
Hunger Task Force of Ohio, President, Board of Trustees

PAPERS PRESENTED AT PROFESSIONAL MEETINGS:

Chemistry of Alcoholic Fermentation, Ohio Grape-Wine Short Course, 1976
Chemistry of Wine Color, Ohio Grape-Wine Short Course, 1977
Chemistry of Wine Flavor, Ohio Grape-Wine Short Course, 1978
Chemistry of Wine Aging and Maturation, Ohio Grape-Wine Short Course, 1979
Visual Aids in Wine Education, Society of Wine Educators Annual Meeting, 1978
New Developments in Food Technology, Ohio Dietetic Association Annual Meeting, 1979

SCIENTIFIC AND PROFESSIONAL SOCIETIES:

American Association for the Advancement of Science
American Chemical Society
Institute of Food Technologists
Society of Wine Educators

OTHER:

In addition to the above activities, I do a certain amount of popular lecturing in the areas of Food Additives, Wine, and The World Food Problem.

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NAME: David Curtis Ferree

DATE OF BIRTH: February 9, 1943

TITLE: Associate Professor

AGE: 36

ASSIGNMENT: O.A.R.D.C. 100% O.S.U. 0 O.C.E.S. 0

EDUCATION:

| <u>Degree</u> | <u>Year</u> | <u>Institution</u> | <u>Major</u> |
|---------------|-------------|-----------------------------------|--------------|
| BS (cum Laud) | 1965 | The Pennsylvania State University | Horticulture |
| MS | 1968 | University of Maryland | Pomology |
| Ph.D. | 1969 | University of Maryland | Pomology |

POSITIONS HELD:

1971- Ohio Agricultural Research and Development Center. Duties: Develop and evaluate management systems for apple production and determine the influence of pesticides, rootstocks and mites on the physiological processes of apple trees.

1969-71 Military Service: United States Army. Rank: Captain. Duties: Organize and conduct various training programs in the area of chemical and biological surety. Awards: Meritorious Service.

1965-69 Graduate Assistant, Department of Horticulture, University of Maryland, College Park, Maryland. Duties: Laboratory and field research, taught laboratory segment of basic class in tree fruit production.

1961-65 Worked summers at Clinton Paper Company, Lock Haven, Pennsylvania. Duties: Ran paper taping machine.

1950-60 Worked summers and after school in home fruit farm and greenhouse. Active in 4-H.

YEARS AT THE OHIO STATE UNIVERSITY: 8

RESIDENT INSTRUCTION:

Courses Taught Past Five Years (1/1/75 to 1/1/80)

Hort. 814: Physiology of Horticulture Plants F-75(10), F-77(7), F-78(8), F-79(14); (Taught 1.5 week segments on physical control of growth and cultural factors influencing photosynthesis.)

TX-294: Fundamentals of Fruit Production F-78(19), F-79(21); (Taught at Agricultural Technical Institute in evenings.)

Graduate Study Involvements:

Number of advisees Past Five Years:

M.S. 4 Ph.D. 5 (co-advisor for 2)

Number of Program Completions Past Five Years:

M.S. 4 Ph.D. 2

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RESEARCH ACTIVITIES:

Hatch 421: Development and Evaluation of Intensive Apple Production Systems (50%)

In addition to collection and analysis of economic and physiological data on 4 management systems for high density orchards, additional studies are conducted to evaluate various pruning, training, and nutritional requirements of small closely spaced trees.

Hatch 604: Influence of Pest, Pesticides and Growth Regulators on Physiological Processes of Apple Trees (30%)

Research conducted under this project has been in close cooperation with co-workers in Entomology and Plant Pathology.

Hatch 619: Scion Rootstock and Interstem Effects on Apple Tree Growth and Fruiting (15%)

Rootstock plantings established as part of this regional project are duplicated in 4-10 other states and in the spring of 1980 a 20 state planting will be established.

Hatch 485: Evaluation of Promising Selections and Cultivars of Certain Tree and Small Fruits for Ohio (5%)

In addition to the evaluation of promising new apple cultivars and strains, scions of Melrose (a cultivar introduced by OARDC) were irradiated in hopes of improving red coloration or producing a more compact growth habit.

O.C.E.S. INVOLVEMENT:

In addition to the presentations mentioned below, I participated in updating the following extension publications: Bulletin 481, "Fruit Tree Propagation"; Bulletin 506, "Ohio Commercial Fruit Spray Guide".

| Speaking Engagements: | Number of Presentations | | | | | |
|----------------------------|-------------------------|------|------|------|------|------|
| | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 |
| Statewide Meetings | 5 | 6 | 6 | 6 | 5 | 5 |
| Area Fruit Schools | 2 | 2 | 2 | 3 | 2 | 3 |
| Radio & TV | 1 | 1 | 2 | 1 | 2 | 2 |
| Career Day & Student Tours | 3 | 4 | 1 | 3 | 2 | 4 |
| Guest Lecture | 1 | 2 | 1 | 1 | 2 | 2 |

MAJOR "OUT OF STATE" SPEAKING ENGAGEMENTS:

1975 Wisconsin State Horticultural Society
 1975 Georgia/South Carolina Fruit Growers Society
 1976 Illinois State Horticultural Society
 1976 Michigan State Horticultural Society
 1977 International Dwarf Fruit Tree Association, Michigan
 1977 Arkansas State Horticultural Society

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MAJOR "OUT OF STATE" SPEAKING ENGAGEMENTS (cont.)

1978 International Dwarf Fruit Tree Association, Michigan
 1978 International Symposium on Photosynthesis & Plant Development, Belgium
 1979 New England Fruit Growers Society
 1979 New York State Horticultural Society
 1980 Iowa Fruit Growers Association
 1980 Minnesota/Wisconsin Apple Meeting
 1980 International Dwarf Fruit Tree Association, Michigan

UNIVERSITY, COLLEGE AND DEPARTMENT COMMITTEES AND ACTIVITIES:

University Committees: Fruit Industry
 OARDC Committees: Library (Chairman 1977)
 Computer Advisory (Chairman 1977)
 Statistician Search Committee (Chairman 1977)
 Horticulture: Farm Committee
 Greenhouse Committee
 Graduate Committee

I have also served recently on committees for the Christmas Sing, Barbecue, and 2 retirement parties.

NON-UNIVERSITY PROFESSIONAL ACTIVITIES:

I served as a member of the Awards Committee of ASHS in 1977 and serve as a reviewer for papers in the area of pomology.

PAPERS PRESENTED AT PROFESSIONAL MEETINGS:

Ferree, D.C. 1974. Influence of trickle irrigation and nitrogen source on growth of apple trees. HortScience 9(3):34.
 Ferree, D.C. 1976. Effects of rootstocks, propagation method and transplanting on growth and flowering of young apple trees. HortScience 11(3):43.
 Stang, E.J., D.C. Ferree, F.R. Hall and R.A. Spotts. 1976. Overtree misting for bloom delay in 'Golden Delicious'. HortScience 11(3):47.
 Ferree, D.C. 1976. The influence of slotting saw pruning on apple tree growth and fruit size. 52nd Cumb. Sheh. Fruit Workers Conf.
 Crassweller, R.M., D.C. Ferree, F.O. Hartman and E. Smith. 1978. Evaluation of ornamental crab apples for pollination of apples. HortScience 13(3):365.
 Taylor, B.H. and D.C. Ferree. 1978. Influence of summer pruning on photosynthesis, transpiration, dry weight and leaf area of apple trees. HortScience 13(3):365.
 Hall, F.R. and D.C. Ferree. 1979. Influence of mite populations on photosynthesis of leaves of various apple cultivars. IX International Congress of Plant Protection.
 Doud, D.S. and D.C. Ferree. 1979. Influence of light on growth and fruiting of 'Delicious' apple trees. HortScience 14(3):407.

-4-

PAPERS PRESENTED AT PROFESSIONAL MEETINGS (cont.)

- Ferree, D.C. 1979. Canopy development and yield efficiency of 'Golden Delicious' apple in four management systems. HortScience 14(3):407.
- Crassweller, R.M., D.C. Ferree and E.J. Stang. 1979. Responses of 'Golden Delicious' apple trees to overtree misting for bloom delay. HortScience 14(3):435.
- Ferree, D.C. 1979. Canopy development and light penetration in four orchard management systems. 55th Cumb. Sheh. Fruit Workers Conf.

SCIENTIFIC AND PROFESSIONAL SOCIETIES:

Honor Societies

Gamma Sigma Delta
Phi Sigma Society
Society of the Sigma Xi
Phi Kappa Phi

Professional

American Pomological Society
American Society for Horticultural Science
International Dwarf Fruit Tree Association
International Society for Horticultural Science
Rootstock Research Foundation

HONORS AND AWARDS:

- 1965 Scholastic Achievement Award, Department of Horticulture, The Pennsylvania State University
- 1971 Meritorious Service, United States Army
- 1976 Paul Howe Shepard Award, American Pomological Society
- 1978 Travel Grant to Symposium on Photosynthesis and Plant Development in Belgium (to present paper)

GRANT OR GIFT SUPPORT RECEIVED:

| <u>Year</u> | <u>Source</u> | <u>Purpose</u> | <u>Amount</u> |
|-------------|--------------------------|--------------------------|---------------|
| 1977 | Hilltop Nursery | Crabapple Pollination | \$ 500 |
| 1977 | Abbott Laboratories | Growth Regulator Studies | 1000 |
| 1978 | Sages Apples | Fruit Research | 500 |
| 1978 | Rootstock Res. Found. | Collar Rot Study | 1000 |
| 1978 | Symposium - Travel Grant | Present Paper on Pn | 600 |
| 1979 | Abbott Laboratories | Growth Regulator Studies | 1250 |
| 1979 | Rootstock Res. Found. | Collar Rot Study | 1000 |

PUBLICATIONS

Refereed:

- Ferree, D.C. and F.R. Hall. 1975. The influence of benomyl and oil on photosynthesis of apple leaves. HortScience 10(2):128-129.
- Hall, F.R. and D.C. Ferree. 1975. Influence of two spotted spider mite populations on photosynthesis of apple leaves. J. Econ. Ent. 68(4):517-520.
- Spotts, R.A., F.R. Hall, D.C. Ferree, and B.M. Jones. 1975. Yield reduction in apples related to benomyl oil spray applications. Plant Dis. Rptr. 59(7):541-543.
- Ferree, D.C., F.R. Hall, and R.A. Spotts. 1976. Influence of spray adjuvants and multiple applications of benomyl and oil on photosynthesis of apple leaves. HortScience 11(4):391-392.
- Hall, F.R. and D.C. Ferree. 1975. Effects of insect injury simulation on photosynthesis of apple leaves. J. Econ. Ento. 69:245-248.
- Spotts, R.A., E.J. Stang, and D.C. Ferree. 1975. Fireblight of apple related to overtree misting for bloom delay. Plant Dis. Rptr. 69(4):329-330.
- Hamazakheyl, N., D.C. Ferree and F.O. Hartman. 1976. Effect of lateral shoot orientation on growth and flowering of young apple trees. HortScience 11(4):393-395.
- Ferree, D.C. 1976. Effect of rootstocks, propagation method, and transplanting on growth and flowering of young apple trees. J. Amer. Soc. Hort. Sci. 101(60):676-678.
- Ferree, D.C. 1976. Influence of slotting saw mechanical pruning and alar on apple fruit size and quality. OARDC Res. Circ. 220:3-7.
- Stang, E.J., D.C. Ferree, and F.R. Hall. 1976. Effect of scoring and growth regulators on flower initiation, fruit set and aphid populations in young apple trees. OARDC Res. Circ. 220:9-13.
- Hall, F.R. and D.C. Ferree. 1976. Low volume spraying and pest control on apples. OARDC Res. Circ. 220:19-23.
- Sharma, D.P., D.C. Ferree and F.O. Hartman. 1977. Effect of some soil applied herbicides on net photosynthesis and plastochron index of apple trees. HortScience 12(2):153-154.
- Sharma, D.P., D.C. Ferree, F.O. Hartman. 1977. Multiple applications of dicofol and dodine on net photosynthesis of apple leaves. HortScience 12(2):154-155.
- Weller, S.C. and D.C. Ferree. 1978. Effect of a pinolene-base antitranspirant on fruit growth, net photosynthesis, transpiration, and shoot growth of 'Golden Delicious' apple trees. J. Amer. Soc. Hort. Sci. 103(1):17-19.

Refereed (cont.)

- Ferree, D.C. and F.R. Hall. 1978. Effects of growth regulators and multiple applications of pesticides on net photosynthesis and transpiration of greenhouse-grown apple trees. J. Amer. Soc. Hort. Sci. 103(1):61-64.
- Stang, E.J., D.C. Ferree, F.R. Hall, and R.A. Spotts. 1978. Overtree misting for bloom delay in 'Golden Delicious' apple. J. Amer. Soc. Hort. Sci. 103(1):82-86.
- Ferree, D.C. 1978. Influence of heading height of newly planted trees on apple tree growth. Fruit Crops-1978: A Sum. of Res. OARDC Res. Circ. 239:5-8.
- Ferree, D.C. and G.A. Cahoon. 1978. Problems of nitrogen nutrition of mature apple trees on M9 rootstock. Fruit Crops-1978: A Sum. of Res. OARDC Res. Circ. 239:9-12.
- Stang, E.J., D.C. Ferree and G.A. Cahoon. 1978. Effects of post-bloom SADH, urea, dormant zinc, and zinc containing fungicides on fruit set and foliar nutrient content in 'Delicious' apple. Fruit Crops-1978: A Sum. of Res. OARDC Res. Circ. 239:13-16.
- Spotts, R.A. and D.C. Ferree. 1979. Influence of surfactants on bud development and disease control of selected deciduous fruit plants (HortSci. 14(1):38-39).
- Spotts, R.A. and D.C. Ferree. 1978. Effect of overtree misting for bloom delay on Venturia inaequalis ascospore maturity and release. Plant Dis. Rpt. 63(2):108-112.
- Spotts, R.A. and D.C. Ferree. 1978. Photosynthesis, transpiration, and water potential in apple leaves infected by Venturia inaequalis (Phytopathology submitted 10/78).
- Ferree, D.C. 1978. Influence of pesticides on photosynthesis of crop plants. Photosynthesis and plant development. ed. R. Marcelle. pp. 331-341.
- Ferree, D.C. 1978. Cultural factors influencing net photosynthesis of tree fruits. HortScience 13(6):650-652.
- Barden, J.A. and D.C. Ferree. 1979. Rootstock does not affect net photosynthesis, dark respiration, specific leaf weight & transpiration of apple leaves. J. Amer. Soc. Hort. Sci. 104(4):526-528.
- Ferree, D.C. 1979. Effects of selected dormant pruning techniques in a hedgerow apple orchard on M26. J. Amer. Soc. Hort. Sci. 104(6):736-739.
- Crassweller, R.M., D.C. Ferree and L.P. Nichols. 1979. Flowering crab apples as potential pollinizers for commercial apple cultivars. (Accepted J. Amer. Soc. Hort. Sci.)
- Doud, D.S. and D.C. Ferree. 1979. Influence of altered light levels on growth and fruiting of mature 'Delicious' apple trees. (Accepted J. Amer. Soc. Hort. Sci.).

Refereed (cont.)

Doud, D.S. and D.C. Ferree. 1979. Influence of reflectant and shade material on light distribution in mature 'Delicious' apple trees. (Submitted J. Amer. Soc. Hort. Sci. 7/16/79).

Ferree, D.C. 1980. Canopy development and yield efficiency of 'Golden Delicious' apple trees in four orchard management systems. J. Amer. Soc. Hort. Sci. 105:376-380.

Technical Articles

Ferree, D.C. and C.A. Morrison. 1974. Apple cultivar response to different rootstocks. Ohio Report, March-April, pp. 27-28.

Ferree, D.C. 1974. Influence of hardy intermediate stocks on growth and yield of two apple cultivars. Fruit Varieties Journ. V 28(2):28-30 April.

Ferree, D.C. and F.R. Hall. 1974. Apple quality factors in dwarf and semi-dwarf trees. Ohio Report, July-August, p. 61-63.

Ferree, D.C. and C.A. Morrison. 1975. An evaluation of selected cultivars, rootstocks and hardy interstocks. Fruit Varieties Journ. V 29(2):26-29.

Ferree, D.C., C.A. Morrison, and L.C. Shew. 1975. Red Delicious Apples---which strain is best? Ohio Report 60(2):19-22.

Ferree, D.C. 1976. Influence of irrigation and nitrogen on growth of young apple trees. Ohio Report, March-April p. 29-31.

Ferree, D.C. and F.R. Hall. 1976. Factors influencing efficiency of apple tree photosynthesis. Ohio Report 61(3):35-37, May-June.

Ferree, D.C. 1976. Rootstocks and training alternatives for high density orchards. 120th Proc. Ill. Hort. Soc. Vol. 109:18-22.

Stang, E.J., D.C. Ferree, F.R. Hall, and R.A. Spotts. 1976. Two years experience with early season misting to delay bloom in apples. 106 Ann. Rpt. Mich. State Hort. Soc. 76-85.

Stang, E.J., D.C. Ferree and F.O. Hartman. 1976. Apple cultivars in Ohio. Amer. Fruit Grower. 96(12):12-13.

Stang, E.J., D.C. Ferree and B.F. Janson. 1977. Delaying peach tree bloom with overhead sprinkling. Ohio Report 62(2):23-26.

Ferree, D.C. 1977. Pruning systems and alternatives. Proc. Ohio State Hort. Soc. 130 Ann. Meeting 38-40.

Ferree, D.C. 1978. Establishing and managing high density orchards. 1977 Proc. Ark. State Hort. Soc. 34-37.

Ferree, D.C. 1978. Trends in apple production in Ohio. 1977 Proc. Ark. State Hort. Soc. 37-40.

Ferree, D.C. 1978. Cooperative testing of new rootstocks. Compact Fruit Tree V 11:107-108.

Technical Articles(cont.)

- Ferree, D.C. 1978. Performance of 'Delicious' in Ohio. Compact Fruit Tree. V 11:56-59.
- Ferree, D.C. 1978. Performance of 15 apple cultivars on MM106 and M26. Fruit Var. Jour. 32(2):40-41.
- Ferree, D.C. 1978. The search for a russet-free strain of 'Golden Delicious' OHio Report, July-August, 63(4):51-54.
- Sharma, D.P., D.C. Ferree and F.O. Hartman. 1978. Influence of pesticides on photosynthesis in apple (Malus domestica Bork.) Pesticides V XII(7):16-19.
- Ferree, D.C. 1979. Apple cultivar selection--It's no easy choice. Amer. Fruit Grower (submitted 10/78) 99(1);15.
- Ferree, D.C. 1979. Management of young apple orchards. Proc. New England Fruit Meetings V85:68-78.
- Ferree, D.C. 1979. Current experiences with summer pruning. N.Y. State Hort. Soc. Proc. 124:77-79.

OARDC Articles

- Ferree, D.C., R.G. Hill, and E.K. Alban. 1974. Influence of rootstocks and herbicides on apple tree growth. OARDC Res. Sum. 75 pp. 1-3.
- Ferree, D.C. and G.A. Cahoon. 1974. Influence of trickle irrigation and nitrogen source on growth of young apple trees. OARDC Res. Sum. 75, pp. 7-10.
- Ferree, D.C. 1974. Influence of freshly treated posts on growth of newly planted trees. OARDC Res. Sum. 75, pp. 11-12.
- Hall, F.R. and D.C. Ferree. 1974. Low-volume spraying in high-density apple orchards. OARDC Res. Sum. 75, pp. 13-16.
- Ferree, D.C. and L.C. Shew. 1975. Apple cultivar evaluation. Fruit Crops Field Day. pp. 20-22.
- Ferree, D.C. 1975. Growth of own-propagated apple trees. Fruit Crops Field Day. pp. 23-25.
- Ferree, D.C. 1975. Management systems for high density orchards. Fruit Crops Field Day. pp. 26-28.
- Stang, E.J., D.C. Ferree, F.R. Hall, and R.A. Spotts. 1975. Overtree sprinkling for bloom delay in fruit crops. Fruit Crops Field Day. pp. 29-31.
- Spotts, R.A., F.R. Hall, and D.C. Ferree. 1975. Yield reduction in apples related to benomyl-oil spray applications. Fruit Crops Field Day. pp. 32-34.
- Stang, E.J., D.C. Ferree, F.R. Hall and R.A. Spotts. 1975. Overtree misting for bloom delay in 'Golden Delicious'. Cumberland-Shenandoah Fruit Workers Conf. pp. 6.
- Ferree, D.C. 1979. Performance of six cultivars on M26. Fruit Var. J. (submitted March 79).

COMMENTS:

In 1972, I accompanied the International Dwarf Fruit Tree Association on a 6 country tour of European research stations and fruit growing areas. In 1978, I visited fruit research stations in Belgium and The Netherlands. In order to keep abreast of new developments, I have also visited the following states to observe research and grower plantings and discuss problems with co-workers: Indiana, Maryland, Massachusetts, Michigan, Minnesota, Missouri, New Hampshire, New York, Pennsylvania, Vermont, South Carolina, Wisconsin and Ontario, Canada.

I serve as Ohio's representative on the regional project NC-140 (Scion/Rootstocks and Interstem Effects on Apple Tree Growth and Fruiting) and also serve on the Rootstock Research Foundation of The International Dwarf Fruit Tree Association. I have been selected by these groups to serve as the coordinator for a 20 state uniform rootstock trial to be planted in 1980.

A 6 month assigned research leave has been approved for March-August 1980 at the East Malling Research Station in England. I will be working with the foremost group in the study of light relations and field measurement of photosynthesis in fruit trees. During the leave I have been invited to present a paper on my work at the International Symposium on High Density Orchards in Italy.

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November 1, 1979

NAME: Richard C. FuntDATE OF BIRTH: 2-14-46TITLE: Associate ProfessorAGE: 33ASSIGNMENT: O.A.R.D.C. 15% O.S.U. 0% O.C.E.S. 85%EDUCATION:

| <u>Degree</u> | <u>Year</u> | <u>Institution</u> | <u>Major</u> |
|---------------|-------------|-------------------------|--------------|
| B. S. | 1968 | Delaware Valley College | Horticulture |
| M. S. | 1971 | The Penn. State Univ. | Horticulture |
| Ph.D. | 1974 | The Penn. State Univ. | Horticulture |

POSITIONS HELD:

Associate Professor - 1978 - Present
 Assistant Professor - 1974 - 1978
 Graduate Assistant - Ag. Econ. - 1971-74
 Graduate Assistant - Horticulture - 1970-71
 Sgt. U.S. Army Vietnam - Secret Clearance - 1968-70
 Summer Assistant County Agent - 1967

YEARS AT THE OHIO STATE UNIVERSITY: .87RESIDENT INSTRUCTION:

Courses Taught - none

Undergraduate Advisees - none

Student Organizational Involvement

Advisor Maryland Horticultural Club 1974-1978

Graduate Study Involvement

Number of Advisees

M. S. 2 Ph.D. 0

Number of Program Completions

M. S. 0 Ph.D. 0RESEARCH ACTIVITIES:

Leader S-143 Trickle Irrigation in Humid Regions
 Hatch 485 - Intensive Apple Systems
 Hatch 421 - Cultivar Evaluation
 Herbicide trials on newly planted brambles
 Extensive peach, nectarine, plum, apricot, blueberry
 and bramble cultivar trials at Overlook

O.C.E.S. INVOLVEMENTS:

Agent training - 4 day (4 regions) - 1979
 Tree Fruit Pruning Demonstrations - 2
 Tree Fruit Production Presentations - 4
 Small Fruit Presentations - 8
 Home Garden Topics - 5
 Master Gardener Training - 2
 Demonstration Plots - 3 acres - Overlook
 Twilight Meetings - 3
 Monroe County - 6 acres established plots

PUBLICATIONS:

Journal Articles (Referreed)

1. Funt, R. C. and L. D. Tukey. 1977. Influence on exogenous Daminozide and Gibberellic acid on cluster development and yield of the 'Concord' grape. J. Amer. Soc. Hort. Sci. 102(4):509-514.
2. Funt, R. C. and B. L. Rogers. 1977. Nutrient level and seed number in 'Magness' pears as related to fruitfulness. Fruit Var. j1. 31(1):4-6.
3. Funt, R. C., L. D. Tukey and E. J. Partenheimer. 1979. Internal rates of return for different 'Golden Delicious' apple orchard systems in Pennsylvania. J. Amer. Soc. Hort. Sci. 104(2):154-159.

Technical Articles

1. Galletta, G. J., A. D. Draper and R. C. Funt. 1978. Two to five acres of berries can sweeten your income. 1978 Yearbook of Agriculture, U.S.D.A. U.S. Gov. Printing Office. pp. 188-198.
2. Funt, R. C., S. H. Todd and G. J. Stadelbacher. 1977. The Redskin and Mar series peach cultivars: Their origin and description. Md. Agric. Expt. Sta. Bul. MP 917, Cont. No. 5343. 18pp.
3. Funt, R. C. 1977. An economic comparison of several small fruit production and harvest systems in Maryland, 1975. Md. Agric. Expt. Sta. Bul. MP 922, Cont. No. 5376. 38pp.
4. Ross, D. S., R. C. Funt and B. L. Goulart. 1979. Evaluation of trickle irrigation in Maryland. Scientific Art. A2662. Md. Agric. Expt. Sta. pp.1-15.

Other Published Materials

Regional Publications

1. Funt, R. C., D. S. Ross and H. L. Brodie. 1978. Comparing costs - trickle irrigation an introduction. N.C.A.E.S. Cornell Univ. pp. 25-28.

Trade Journals (State, Regional or National Distribution)

1. Funt, R. C. 1974. Orchard cost analysis. Pa. Fruit News Vol. 53(4):39-41.
2. Funt, R. C. 1974. Higher profits possible with new orchard systems. The Packer 81(37):2-7.
3. Funt, R. C., E. J. Partenheimer and L. D. Tukey. 1974. Apple orchard systems in Pennsylvania. The Md. Fruit Grower 44(3):11-12.
4. Funt, R. C. 1974. Horticultural production in Poland. The Md. Fruit Grower 44(4):1-2.
5. Partenheimer, E. J., R. C. Funt and L. D. Tukey. 1974. An economic comparison of several apple production systems in Pennsylvania. Proc. Cumberland-Shenandoah Fruit Workers Conf. Rept. 27.
6. Funt, R. C., E. J. Partenheimer and L. D. Tukey. 1975. Higher profits possible via new orchard system. Science In Agriculture. Pa. State Univ. Agric. Expt. Sta. Vol. 22(8):12.
7. Funt, R. C. 1975. Higher returns for higher density. Amer. Fruit Grower 95(12):22-23.
8. Funt, R. C., E. J. Partenheimer and L. D. Tukey. 1975. An economic analysis of several apple orchard systems in Pennsylvania. Hort. Rev., N. J. State Hort. Soc. 56(1);8-12.
9. Funt, R. C., E. J. Partenheimer and L. D. Tukey. 1975. A comparison of several apple production systems in Pennsylvania. The Mountaineer Grower No. 347. pp10-20.
10. Funt, R. C. 1975. High costs demand grower efficiency. The Packer 82(7):29.
11. Funt, R. C. 1975. The profitability of tree fruits and small fruits. Pa. Fruit News 54(4):72-73.
12. Funt, R. C. 1975. The profitability of tree fruits and small fruits. The Md. Fruit Grower 45(2):15-16.
13. Funt, R. C., E. J. Partenheimer and L. D. Tukey. 1975. A comparison of several apple production systems in Pennsylvania. Compact Fruit Tree. The International Dwarf Fruit Tree Assn. 8:50-57.
14. Funt, R. C. 1976. My experience with dwarf apple rootstocks. The Md. Fruit Grower 46(4):5-8.
15. Funt, R. C. 1977. Which apple rootstock is best to grow? Amer. Fruit Grower 97(1):20,47.
16. Funt, R. C. and B. L. Rogers. 1977. Nutrient level and seed number in 'Magness' pears as related to fruitfulness. The Md. Fruit Grower 47(2):3-7.

17. Funt, R. C. 1977. An economic comparison of several small fruit enterprises in Maryland, 1975. Proc. Cumberland-Shenandoah Fruit Workers Conf.
18. Funt, R. C. 1977. The Maryland fruit industry, 1976. Pa. Fruit News 56(4):44.
19. Funt, R. C. 1977. The Maryland fruit industry, 1976. Md. Fruit Grower 47(1):12-13.
20. Funt, R. C. and D. S. Ross. 1978. Trickle irrigation for apples and peaches. North American Pomona, Winter edition 11(4):193-200.
21. Funt, R. C. and D. S. Ross. 1978. Trickle irrigation for apples and peaches. PA Fruit News 57(4):18-22.
22. Funt, R. C. and D. S. Ross. 1978. Trickle irrigation for apples and peaches. Maryland Fruit Grower 48(1):28-32.

Extension Bulletins and Fact Sheets

1. Beste, C. E., L. O. Weaver, J. G. Kantzes, W. C. Harding and R. C. Funt. 1975. Small fruit spray calendar (revised). Coop. Ext. Serv., U. of Md. EB 242. 16pp.
2. Krestensen, E. R., L. O. Weaver, R. C. Funt and B. L. Rogers. 1975. Apple and peach spray calendar (revised). Coop. Ext. Serv., U. of Md. EB 134. 15pp.
3. Funt, R. C. 1976. Growing strawberries in the home garden. Coop. Ext. Serv., Fact Sheet 223. 4pp. 2 illus.
4. Krestensen, E. R., L. O. Weaver, R. C. Funt and B. L. Rogers. 1976. Apple and peach spray calendar. Coop. Ext. Serv., U. of Md. EB 134. 15pp.
5. Beste, C. E., L. O. Weaver, J. G. Kantzes, W. C. Harding and R. C. Funt. 1976. Commercial small fruit spray calendar. Coop. Ext. Serv., Univ. of Md. EB 242. 16pp.
6. Funt, R. C., W. C. Harding and L. O. Weaver. 1976. Growing strawberries in Maryland. Coop. Ext. Serv., U. of Md. Bul. 216 (revised). 10 pp. Illus.
7. Funt, R. C. and B. L. Rogers. 1977. Pruning in the home garden. Coop. Ext. Serv. Bul. 197. (revised) 14 pp. 12 illus.
8. Funt, R. C. 1977. Fruit cultivars for the home garden. Coop. Ext. Serv., U. of Md. Fact Sheet 229. 4pp.
9. Funt, R. C. and B. L. Rogers. 1977. Tree fruits in the home garden. Coop. Ext. Serv., Univ. of Md. Fact Sheet 230. 4pp. 4 illus.

Other Extension Publications

1. Funt, R. C. 1974. Fruit judging tips. Dept. of Hort., Univ. of Md. HE 99-74.

2. Funt, R. C. 1974. Partial listing of nurseries supplying fruit trees and berry plants. Dept. of Hort., Univ. of Md. HE 100-74.
3. Funt, R. C. and L. O. Weaver. 1975. Cork (York spot), bitter pit, boron deficiency in apples. Dept. of Botany, Univ. of Md. Mimeo #46.
4. Funt, R. C. and J. F. Kundt. 1975. Growing nut trees in Maryland. Dept. of Hort., Univ. of Md. HE 24-75.
5. Funt, R. C. 1975. Apple and pear cultivars for Maryland. Dept. of Hort., Univ. of Md. HE 104-75.
6. Funt, R. C. 1975. Cherry, nectarine and plum cultivars for Maryland. Dept. of Hort., Univ. of Md. HE 105-75.
7. Funt, R. C. 1975. Fertilizer recommendations for tree fruit and small fruit. Dept. of Hort., Univ. of Md. HE 29-75.
8. Funt, R. C. and H. D. Stiles. 1975. Fruit cultivars for the home garden. Dept. of Hort., Univ. of Md. HE 25-75.
9. Funt, R. C. and H. D. Stiles. 1975. Growing strawberries in your home garden. Dept. of Hort., Univ. of Md. HE 106-75. 5pp.
10. Funt, R. C. and B. L. Rogers. 1975. Standard and new peach cultivars. Dept. of Hort., Univ. of Md. HE 103-75.
11. Funt, R. C. and B. L. Rogers. 1975. Tree fruit culture in Maryland. Dept. of Hort., Univ. of Md. HE 103-75.
12. Funt, R. C. and B. L. Rogers. 1975. Tree fruits in the home garden. Dept. of Horticulture, Univ. of Md. HE 197-75. 4pp.
13. Funt, R. C. and S. L. Wildman. 1975. Commercial raspberry and blackberry culture in Maryland. Dept. of Hort., Univ. of Md. HE 40-75. 6pp.
14. Funt, R. C. and W. Deshler. 1975. Grape survey. Dept. of Hort., Univ. of Md.
15. Funt, R. C. 1975. Fruit survey. Dept. of Hort., Univ. of Md.
16. Funt, R. C., E. R. Krestensen and L. O. Weaver. 1976. Viticulture in Maryland. Dept. of Hort., Univ. of Md. Mimeo HE 116-76. 16pp.
17. Funt, R. C., E. J. Partenheimer and L. D. Tukey. 1976. A comparison of several apple production systems in Pennsylvania. Mimeo. The Penn. State Univ. (distributed to states by U.S.D.A.) 12pp.
18. Funt, R. C. and B. L. Rogers. 1976. Rootstocks for fruit trees. Dept. of Hort., Univ. of Md. Mimeo HE 114-76.
19. Funt, R. C. 1977. Partial listing of several nurseries supplying fruit trees and berry plants. Dept. of Hort., Coop. Ext. Serv. HE 100-77 (revised) 2pp.
20. Funt, R. C. 1977. Highbush blueberry culture for Maryland. Dept. of Hort., Coop. Ext. Serv. HE 121-77. 9pp.

21. Krestensen, E. R., L. O. Weaver, R. C. Funt and B. L. Rogers. 1978. Apple and peach spray calendar. Coop. Ext. Serv. Univ. of Md. (revised) EB 134.
22. Beste, C. E., L. O. Weaver, J. G. Kantzes, R. C. Funt and W. C. Harding. 1978. Commercial small fruit spray calendar. Coop. Ext. Serv. Univ. of Md. EB 242.
23. Funt, R. C. 1978. The Pomologist - newsletter, 8 issues.
24. Funt, R. C. 1978. Fruit cultivars for the home garden - Wye Horticultural and Education Day. Coop. Ext. Serv., Univ. of Md.
25. Miller, M. and R. C. Funt. 1979. Pruning and training fruit trees. Ohio Coop. Ext. Serv. LF-PR9-79 Fact Sheet.

MAJOR "OUT OF STATE" SPEAKING ENGAGEMENTS:

1. 1975 - An economic comparison of several apple orchard systems - West Virginia Hort. Soc., Charlestown, W. Va.
2. 1975 - Profitability of tree fruit and small fruit - Tri-State Winter Meeting, Gettysburg, PA.
3. 1976 - An economic comparison of several small fruit systems in Maryland - Cumberland-Shenandoah Fruit Workers Conf. - Winchester, VA.
4. 1977 - The influence of trickle irrigation on newly planted apple and peach trees - Cumberland-Shenandoah Fruit Workers Conf., Beltsville, MD.
5. 1977 - The Maryland fruit industry, 1976. - Md., N.J. and Pa. Annual Winter Meeting, Gettysburg, PA.
6. 1978 - An economic comparison of small fruit in Maryland. Ohio Strawberry Short Course - Wooster
7. 1979 - Energy in Cropping systems, N. E. Ag. Leadership Assembly, Cherry Hill, N.J.

UNIVERSITY, COLLEGE AND DEPARTMENT COMMITTEES AND ACTIVITIES:

College

Pesticide Training - Ohio
Fruit Industry - Ohio
Awareness Committee - Ohio

Department - Ohio

Extension - Chr.
Lane Farm
Member, Graduate Faculty
ASHS tour leader - ASHS 1979
Overlook Farm Supervisor

NON-UNIVERSITY PROFESSIONAL ACTIVITIES:

Ohio Fruit Growers Program Committee
Editor - Ohio Fruit Journal
Secretary, Maryland State Horticultural Society (MSHS)

Chairman, Awards Committee (MSHS)
 Member, Research Committee, (MSHS)
 Member, Convention Committee, MD, PA, N.J. State Meetings
 Advisor, Maryland Horticulture Club

PAPERS PRESENTED AT PROFESSIONAL MEETINGS:

a. International

1. 1974 - An economic analysis of several orchard systems -
 IX Int'l Hort. Congress, Warsaw, Poland

b. National

1. 1974 - An economic analysis of several apple orchard systems
 in Pennsylvania. Amer. Soc. Hort. Sci., Guelph, Canada.
2. 1975 - An economic comparison of several apple orchard systems -
 Int'l Dwarf Fruit Tree Assn., Grand Rapids, Mich.
3. 1977 - An economic comparison of several small fruit enterprises
 in Maryland, 1975. Amer. Soc. Hort. Sci., Salt Lake City, Utah
4. 1978 - An economic comparison of trickle VS. overhead irrigation
 systems for six major fruit crops in Md. Amer. Soc. Hort. Sci., Boston
5. 1978 - Soil and site selection for vineyards. Amer. Wine. Soc.
 Ann. meeting - Baltimore
6. 1979 - The effect of post plant granular nematicides and trickle
 irrigation on nematode population of newly planted peach trees
 (Prunus persica L.) Amer. Soc. Hort. Sci. - Columbus.

SCIENTIFIC AND PROFESSIONAL SOCIETIES:

1. Member - Small Fruit Working Group, ASHS
2. Member - International Dwarf Fruit Tree Assn.
3. Member - American Pomological Society
4. Member - American Agricultural Economics Assn.
5. Member - North American Strawberry Growers Assn.

HONORS & AWARDS:

Shepard Award - APS - Best paper in 1977

Elected to: Gamma Sigma Delta - Honor Fraternity
 Society of Sigma Xi - Honor Fraternity
 Phi Sigma - " "
 Delta Tau Alpha - " "
 Phi Epsilon Phi - " "

Listed in: Who's Who Among Students in American Universities and Colleges - 1968

GRANT OR GIFT SUPPORT RECEIVED:

| <u>Year</u> | <u>Source</u> | <u>Purpose</u> | <u>Amount</u> |
|-------------|---------------|---|---------------|
| 1979 - | C. K. Bay | Establish apple industry in Monroe County - Ohio | \$ 5,000.00 |
| 1979 | Breon | Small fruit research | \$ 1,000.00 |
| 1975-1978 | Wye Institute | Fruit Demo plots | \$10,000.00 |
| 1977-1979 | Agway, Inc. | Fruit Nutrition | \$ 720.00 |

NAME: James F. GallanderDATE OF BIRTH: April 17, 1937TITLE: ProfessorAGE: 42

ASSIGNMENT: 1963-1974 OARDC 100%
 1974-1979 OARDC 80% OSU 20%
 1979-Present OARDC 80% OCES 20%

EDUCATION:

| <u>Degree</u> | <u>Year</u> | <u>Institution</u> | <u>Major</u> |
|--------------------|-------------|---------------------------------|--------------|
| BS | 1960 | Ohio State University | Food Tech. |
| PhD | 1964 | Ohio State University | Food Tech. |
| Assigned Res. Duty | 1970 | University of California, Davis | Enology |

POSITIONS HELD:

| <u>Employer</u> | <u>Title</u> | <u>Dates</u> |
|-----------------|---------------------|--------------|
| OARDC | Professor | 1972-Present |
| OARDC | Associate Professor | 1968-1972 |
| OARDC | Assistant Professor | 1964-1968 |
| OARDC | Instructor | 1963-1964 |

YEARS AT THE OARDC: 17RESIDENT INSTRUCTION:

Hort. 670 - Principles and Wine Production, A-75(7), A-75(9), A-76(8),
 A-77(8), A-78(8).

Undergraduate Advisees - None
 Student Organizational Involvements - None
 Graduate Study Involvements:

Number of Advisees (1975-80)

M.S. 2 Ph.D. 1

Number of Program Completions (1975-80)

M.S. 2 Ph.D. 0

RESEARCH ACTIVITIES:

Hatch 589 - "Influence of Cultivars and Processing Practices on the
 Quality of Wines and Other Fruit Products" (40%)

Hatch 607 - "Improving the Quality of Ohio Varietal Table Wines
 Through Biological Deacidification" (50%)

Hatch 668 - "Determination of the Causes of and Correction for pH
 Imbalance in Grapes for Processing" (10%)

O.C.E.S. INVOLVEMENTS:

- 1975-1980 - Co-Chairperson - Ohio Grape-Wine Short Course - approximately 150 attending, 2 days.
- 1975-1980 - Consultation - approximately 20 Ohio wineries each year.
- 1975-1980 - Presentations - 4 area grape and wine-growers meetings each year.
- 1975-1980 - Co-Chairperson- Ohio Wine Industry Conference - review enology & viticulture research, 1 day.
- 1979-1980 - Chairperson - Wine Analysis Workshop, 2 days.

PUBLICATIONS:

Journal Articles (Referred)

- Gallander, J.F. Chemistry of grapes and other fruit as the raw material involved in winemaking. p. 11-40. IN: Chemistry of Winemaking, A.D. Webb, (ed.). Adv. Chem. Ser. 137, Am. Chem. Soc. Washington, D.C. (1974).
- Gallander, J.F. and D.W. Kretchman. Apple slice impregnation with fruit juice. HortScience 11(4):395-397 (1976).
- Bauman, J.A., J.F. Gallander and A.C. Peng. Effect of maturation on the lipid content of Concord grapes. Am. J. Enol. Vitic. 28(4):241-244 (1977).
- Gallander, J.F. Deacidification of eastern table wines with Schizosaccharomyces pombe. Am. J. Enol. Vitic. 28(2):65-68 (1977).
- Gallander, J.F. Fruit concentrations of amino acids in several strawberry cultivars in relation to the time of harvest. HortScience 14(1):48-49 (1979).
- Snow, P.G. and J.F. Gallander. Deacidification of white table wines through partial fermentation with Schizosaccharomyces pombe. Am. J. Enol. Vitic. 30(1):45-48 (1979).
- Gallander, J.F. Effect of time of bacterial inoculation on the stimulation of malo-lactic fermentation. Am. J. Enol. Vitic. 30(2):157-159 (1979).
- Beelman, R.B. and J.F. Gallander. Wine deacidification. Adv. Food Res. 25: 1-51 (1979).
- Gallander, J.F. and A.C. Peng. Lipid and fatty acid compositions of different grape types. Am. J. Enol. Vitic. 31(1): In Press.

PUBLICATIONS (cont.):

Technical Articles

- Gallander, J.F. Wine deacidification with Schizosaccharomyces pombe. OARDC Hort. Ser. 425:43-45 (1974).
- Gallander, J.F. and J.F. Stetson. Grape cultivars: II. Wine evaluation. OARDC Hort. Ser. 425:36-42 (1974).
- Gallander, J.F. Tartrate stability in wine. Proc. of 8th Penn. State Wine Conf. 72-77 (1975).
- Gallander, J.F. Detection of malo-lactic fermentation. Proc. of 8th Penn. State Wine Conf. 84-86 (1975).
- Gallander, J.F. Significance of wine analysis. OARDC Hort. Ser. 438:78-80 (1976).
- Gallander, J.F. and J.F. Stetson. Wine deacidification with mixed cultures of Schizosaccharomyces pombe and Saccharomyces cerevisiae. OARDC Hort. Ser. 437:68-69 (1976).
- Gallander, J.F. and J.F. Stetson. Concentrations of tartaric and malic acids of several wine varieties grown in Ohio. OARDC Hort. Ser. 437:72-74 (1976).
- Gallander, J.F. and J.F. Stetson. Evaluation of grapes for Ohio wines. OARDC Hort. Ser. 438:46-56 (1976).
- Gallander, J.F. and J.F. Stetson. Evaluating strawberries for freezing. OARDC Res. Cir. 213:46-48 (1976).
- Gallander, J.F. and J.F. Stetson. Grapes for Ohio Wines. Res. Cir. 213:48-54 (1976).
- Gallander, J.F. and J.F. Stetson. Grape varieties and selections for Ohio wines. OARDC Hort. Ser. 455:16-26 (1977).
- Gallander, J.F. Review of malo-lactic studies in Ohio. OARDC Hort. Ser. 455:98-101 (1977).
- Gallander, J.F. and J.F. Stetson. Evaluation of grape varieties and selections for Ohio table wines. OARDC Hort. Ser. 460:16-19 (1978).
- Gallander, J.F. and P.G. Snow. Biological deacidification in Ohio wines. OARDC Hort. Ser. 455:66-68 (1978).
- Gallander, J.F. and J.F. Stetson. Deacidification of white wines with Schizosaccharomyces pombe. OARDC Hort. Ser. 472:23-26 (1979).

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PUBLICATIONS (cont.):

Other Published Materials

Gallander, J.F. Malo-lactic fermentation improves table wines. OARDC Ohio Report 59(6):116-117 (1974).

Gallander, J.F. and T.H. Short. Grape juice concentration by reverse osmosis. OARDC Ohio Report 59(6):109-110 (1974).

Briner, L.E. and J.F. Gallander. Manual for wine analysis. OARDC Hort. Ser. 458, 23 p. (1978).

Gallander, J.F., L.E. Briner and J.F. Stetson. Manual for wine analysis and laboratory techniques. OARDC Hort. Ser. 473, 36 p. (1979).

MAJOR "OUT OF STATE" SPEAKING ENGAGEMENTS:

Canadian Society of Oenologists
Pennsylvania Wine Conference
Indiana Grape-Wine Conference

UNIVERSITY, COLLEGE AND DEPARTMENT COMMITTEES:

1974 - OARDC Library Committee
1975 - Department - Coordinator - OARDC Open House
1974-77 - OARDC - Safety Committee
1978-80 - College - Grape-Wine Industry Committee
1979-83 - OARDC - Affirmative Action Advisory Council
1976-80 - Department - Social Committee
1979-80 - Department - Farm Science Review Committee

NON-UNIVERSITY PROFESSIONAL ACTIVITIES:

Editorial Review Committee for American Journal of Enology and Viticulture
Director, American Society of Enologists, Eastern Section, 1975-76
Advisor, Ohio Wine Producers Association
Consultant - Golden Raintree Winery, Indiana
Reviewer & Critic, 2 books - "Wines Their Sensory Evaluation" by M.A. Amerine and E.B. Roessler; "Technology of Winemaking" by Amerine, Berg and Cruess.

PAPERS PRESENTED AT PROFESSIONAL MEETINGS:

1974 - Canadian Soc. of Enologists - "Methods of reducing wine acidity".
1976 - American Society of Enologists, E.S. - "Wine deacidification with Schizosaccharomyces pombe".
1976 - American Society of Enologists, E.S. - "Effect of maturation on the lipid content of Concord grapes".
1977 - American Society of Enologists, E.S. - "Effect of time of bacterial inoculation on the stimulation of malo-lactic fermentation".

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PAPERS PRESENTED AT PROFESSIONAL MEETINGS: (cont.)

- 1978 - American Society of Enologists, E.S. - "Lipid and fatty acid composition of several grape varieties".
- 1979 - American Society of Enologists, E.S. - "Effect of bacterial inoculum levels on the rate of malo-lactic fermentation".
- 1979 - Inst. of Food Tech., OVIFT - "Factors affecting malo-lactic fermentation".

SCIENTIFIC AND PROFESSIONAL SOCIETIES:

Institute of Food Technologists
 American Society of Enologists
 Lake Erie Section - Institute of Food Technologists

HONORS AND AWARDS:

None

GRANT OR GIFT SUPPORT RECEIVED:

| <u>Year</u> | <u>Source</u> | <u>Purpose</u> | <u>Amount</u> |
|-------------|-----------------------|-------------------------------|---------------|
| 1975 | Amchem | Yeast fermentation studies | \$ 500.00 |
| 1976 | Lonz Foundation | Enology & Viticulture Studies | 18000.00 |
| 1977 | Lonz Foundation | Enology & Viticulture Studies | 18000.00 |
| 1978 | Lonz Foundation | Enology & Viticulture Studies | 18000.00 |
| 1979 | Lonz Foundation | Enology & Viticulture Studies | 18000.00 |
| 1979 | Ohio Wine Prod. Assn. | Enology & Viticulture Studies | 1000.00 |

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Name: Jean R. Geisman

Date of Birth: March 20, 1933

Title: Professor

Age: 46

Assignment: O.A.R.D.C. - 30% O.S.U. - 70%

Education:

| | | | |
|-------|------|---------------------------|-----------------|
| B.S. | 1955 | The Ohio State University | Food Technology |
| M.S. | 1956 | The Ohio State University | Horticulture |
| Ph.D. | 1958 | The Ohio State University | Horticulture |

Positions Held:

Professor - 1967-present
Associate Professor - 1963-67
Assistant Professor - 1958-63
Research Assistant - 1956-58

Years at The Ohio State University - 21

Resident Instruction:

Agronomy/Horticulture 200 - Plant Science in Agriculture, W-75(60), S-75(56),
W-76(105), S-76(67), W-77(84), S-77(59), S-78(62).

Horticulture 293 - Individual Studies - S-79(1).

Horticulture H299 - Plants and Man, W-75(20), W-76(22), W-77(17), W-78(34),
W-79(20).

Horticulture 489 - Horticultural Industries Experience - A-77(1), W-78(2),
S-78(1), W-79(1)

Agriculture H590 - Agr. Honors Colloquium - S-75(15), W-76(19), A-78(18),
A-79(12).

Horticulture H599 - Honors Course - A-77(1), S-78(1), S-79(1).

Horticulture 593 - Individual Studies - S-78(1), A-78(1), W-79(1), S-79(1).

Horticulture 645 - Fermented Plant Product Technology - A-75(15), A-76(18),
A-77(20), W-79(18).

Horticulture 649 - Packaging - W-76(18), W-75(9).

Horticulture 803 - Research Principles and Techniques in Horticulture - A-79(23).

Horticulture 993 - Individual Studies - S-76(1), A-77(1), W-78(1), S-78(1).

Horticulture 999 - Research or Dissertation - W-75(3), S-75(3), A-75(2),
W-76(2), S-76(1), W-77(5), S-75(7), S-77(5), A-77(3), W-78(1), S-78(1),
S-78(2), W-79(2).

Undergraduate Advisees - Autumn 1979 - 69

Student Organizational Involvements:

Assistant Adviser - Food Technology Club
Adviser - Phi Eta Sigma, Freshman Honor Society

Graduate Study Involvements

Number of Advisees Past Five Years - M.S. 9 Ph.D. 2

Number of Program Completions Past Five Years - M.S. 6 Ph.D. 1

RESEARCH ACTIVITIES:

Hatch 636 - Utilization of Wastes from Vegetable Processing Plants (100%).
Conduct and direct research on pickling cucumber, tomato, and cabbage processing wastes with emphasis on recycling or byproduct utilization.

O.C.E.S. INVOLVEMENTS:

Extension involvement has been related to agent questions concerning fermented foods made and processed at home. Radio tapes were made on this subject.

PUBLICATIONS:

Journal Articles (Refereed)

Geisman, J.R. Reduction of Pesticide Residues in Food Crops by Processing.
Residue Reviews 54:43-54. Jan. 1975.

Shoup, J.L., Gould, W.A., Geisman, J.R. and Crean, D.E. Salt Free Acidulant Storage of Pickling Cucumbers. Journal of Food Science 38:489 1975.

Peng, A.C. and Geisman, J.R. Lipid and Fatty Acid Composition of Cucumbers and Their Changes During Storage of Fresh-Pack Pickles. Journal of Food Science 41:6 1976.

Geisman, J.R. Uses for the Solid Waste from Cabbage. New York State Agricultural Experiment Station. Special Report No. 24. Geneva, NY January 1977.

Technical Articles

Geisman, J.R. Products, Pouches and Pocketbooks. National Kraut Packers Association Newsletter. Chicago, IL Aug. 1975,

Carey, W.E., Dare, J.G., Feller, D.R., Geisman, J.R. and Plough, W.D. Radiation Safety Standards for The Ohio State University. Office of Vice President for Medical Affairs. The Ohio State University. Oct. 1975.

Eggers, L.K. and Geisman, J.R. Protein Bodies of the Germinating Tomato Seed Cotyledon. OARDC Research Circular 213. Jan. 1976.

Peng, A.C. and Geisman, J.R. Fatty Acids in Fresh and Recycled Brines. OARDC Research Circular 213. Jan. 1976.

Geisman, J.R. and Lazear, M. Repeated Recycling of Spent Pickle Brines Affects Pickle Quality. OARDC Research Circular 213. Jan. 1976.

Geisman, J.R. Using Tomato Seeds. Research Progress Reports. Horticulture Series No. 437. Feb. 1976.

PUBLICATIONS (continued)

- Geisman, J.R. Recycling Spent Pickling Brines. Research Progress Reports. Horticulture Series No. 437. Feb. 1976.
- Geisman, J.R. Uses of the Outer Green Leaves of Cabbage. Research Progress Reports. Horticulture Series No. 437. Feb. 1976.
- Geisman, J.R. Recycling Brines from Cucumber Processing. OARDC. Horticulture Series #456. Feb. 1978.
- Geisman, J.R. Pickling Cucumbers at Home Landscape Facts. Cooperative Extension Service LF-VG 22-78. The Ohio State University. June 1978.
- Brodowski, D. and Geisman, J.R. Protein Content of Seeds Taken from Tomatoes at Various Stages of Ripeness. Food Processing and Technology 1978. A Summary of Research. OARDC Research Circular 240. Aug. 1978.
- Glaros, T. and Geisman, J.R. Refinements in Pickle Brine Recycling. Food Processing and Technology 1978. A Summary of Research, OARDC Research Circular 240. Aug. 1978.

Other Published Materials

- Geisman, J.R. Uses of the Outer Green Leaves of Cabbage. Research Progress Reports. Horticulture Series No. 437. Feb. 1976.
- Geisman, J.R. Goals and Objectives. Quality Teaching. The Ohio State University. Jan. 1977.
- Geisman, J.R. Changes in Horticulture and Ohio State. The Ohio State Floriculture-Landscape Horticulture Alumni Association Newsletter. Oct. 1977.
- Geisman, J.R. Cabbage Wastes Are Not Really Wastes. National Kraut Packers Association Newsletter. Chicago, IL Dec. 1977.
- Geisman, J.R., Herr, D.E., Irvin, K.M., Latshaw, J.D., Meyer, R.L., Miller, R.A., Ritchie, A.E. Handbook for Faculty Advisors Honors Section. College of Agriculture and Home Economics. Columbus, OH Sept. 1978.

MAJOR "OUT OF STATE" SPEAKING ENGAGEMENTS:

- 1975 - Products, Pouches, and Pocketbooks - National Kraut Packers Association. Chicago, IL.
- 1976 - Uses of the Outer Green Leaves of Cabbage - National Kraut Packers Assoc. Chicago, IL.
- 1976 - Uses for Solid Wastes from Cabbage - National Kraut Packers Assoc. Meeting. Geneva, NY.
- 1977 - Cabbage Wastes Are Not Really Wastes - National Kraut Packers Assoc. Chicago, IL.
- 1978 - Recycling Brines From Cucumber Processing - Engineering Foundation Conference, Asilomar, CA.

UNIVERSITY, COLLEGE, AND DEPARTMENT COMMITTEES AND ACTIVITIES:

University

University Radiation Safety Committee, 1969-present.
Graduate Council, 1976-70.
Curriculum Committee-Graduate Council, 1976-77.
Chaired Sub-Committee for Guidelines for Graduate Credit Courses.
Research Committee-Graduate Council, 1978-79.
Sub-Committee, Graduate Student Small Grants, 1978.
Task Force on Learning, Departmental Learning Consultant, 1977-78.
Graduate Associate Committee, 1977-79.
Graduate School Coordinating Committee - College of Pharmacy Comprehensive Review, 1978-present.
University Senate, 1979-81.
Council on Admissions and Registration, 1979-81.

College

Honors Committee, 1972-present. Chairperson, 1974-78.
Undergraduate Academic Advising, 1976-present. Chairperson, 1977-78.
Food Technology Committee, 1976-present. Chairperson, 1978-79.
Research in Graduate Education Committee, 1976-present.
Faculty Leave Committee, Chairperson, 1977-78.
Personnel Policies and Records, 1976-present.
Plant Protection Committee, 1976-present.
Radioisotope Committee, 1968-present.
Patent Advisory Committee, Secretary, 1976-present.

Department

Curriculum Committee
Graduate Committee, Chairman
Undergraduate Committee
Promotion & Tenure Committee, Chairman
Space Utilization Committee

NON-UNIVERSITY PROFESSIONAL ACTIVITIES:

Consultant - Office of Technology Assessment, Congress of the United States, 1977-78.
Reviewer - U.S. Environmental Protection Agency, Competitive Grants, 1977.
Reviewer - U.S. Department of Agriculture - Competitive Grants, 1977.
Ohio Program, National Junior Horticultural Association Identification and Information Contest Leader, 1976-present.
Program Co-Chairman 9th Annual Engineering Foundation Conference on Environmental Engineering in the Food Industry, 1979.
Local Arrangements Coordinator, American Society for Horticultural Science, 1979 - Chairman, Housing & Food Service.

PAPERS PRESENTED AT PROFESSIONAL SOCIETIES:

Geisman, J.R. Uses for the Solid Waste from Cabbage. New York State Agricultural Experiment Station. Sauerkraut Seminar, Sept. 1976.
Glaros, T. and Geisman, J.R. Organic Flocculants Speed Spent Pickle Curing Brine Recycling. Institute of Food Technologists. St. Louis, MO. 1979.
Brodowski, D. and Geisman, J.R. Protein Content of Seeds from Tomatoes at Various Stages of Ripeness. Institute of Food Technologists. St. Louis, MO. 1979.

SCIENTIFIC AND PROFESSIONAL SOCIETIES:

Institute of Food Technologists (Professional Member)
American Society for Horticultural Science
Ohio Valley Section Institute of Food Technologists (Currently alternate
counselor of Section, Member of Executive Committee, Past President and
Past Vice-President)
Food Engineering Division, Institute of Food Technologists

HONORS & AWARDS:

Alpha Zeta
Sigma Xi
Gamma Sigma Delta - Past President, Vice-President, Secretary, & Treasurer
of Ohio Chapter
Phi Tau Sigma Honorary Society, Inc.
Phi Tau Sigma Buckeye Chapter (Co-Founder)
Pi Alpha Xi
Phi Eta Sigma, Honorary Member
Distinguished Service Award - Ohio Program National Junior Horticulture Assoc.
Listed in Who's Who in American Men and Women in Science
Delta Theta Sigma Fraternity, Honorary Member

GRANT OR GIFT SUPPORT RECEIVED:

1975 Pickle Packers International Brine Recycling Studies \$1500

COMMENTS:

Currently serve as Coordinating Adviser for the Department and also have responsibilities to coordinate curriculum program development and review audio visual materials and equipment, general coordination of undergraduate program and recruitment activities. From January to May, 1979, was College Honors Coordinator while Assistant Dean Austin Ritchie was on leave.

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NAME: Charles H. Gilliam

DATE OF BIRTH: October 14, 1952

TITLE: Assistant Professor

AGE: 27

ASSIGNMENT: O.A.R.D.C. 40% O.S.U. 60% O.C.E.S.

EDUCATION:

| <u>Degree</u> | <u>Year</u> | <u>Institution</u> | <u>Major</u> |
|---------------|-------------|----------------------------------|------------------------|
| B.S. | 1974 | University of Tennessee - Martin | Agricultural Education |
| M.S. | 1976 | Virginia Tech | Horticulture |
| Ph.D. | 1977 | Virginia Tech | Horticulture |

POSITIONS HELD:

1977- Assistant Professor, Department of Horticulture, The Ohio State University

YEARS AT THE OHIO STATE UNIVERSITY: 2

RESIDENT INSTRUCTION:

| | |
|--|----------------------|
| Horticulture 200 - Introduction to World Crops | W-78 (65); W-79 (75) |
| Horticulture 533 - Nursery Management | S-78 (22); S-79 (25) |
| Horticulture 813 - Mineral Nutrition | W-79 (11) |
| Horticulture 293 - Opportunities in Landscape Horticulture | A-79 (70) |

Undergraduate Advisees - Autumn 79-70

Graduate Study Involvements:

Number of Advisees Past Five Years

M.S. 2 Ph.D. 0

Number of Program Completion Past Five Years

M.S. 0 Ph.D. 0

RESEARCH ACTIVITIES:

Mineral Nutrition of Selected Woody Plants - Hatch 654: 40% OARDC commitment
 This project has as its objective increased efficiency and effectiveness of fertilizer applied to ornamental crops through improvements in sampling, timing of fertilizer application, maintaining fertilizer longer in the medium and rates applied.

PUBLICATIONS:

Refereed

- Gilliam, C.H. and R.D. Wright. 1977. Effects of nitrogen and growth regulators on growth of Japanese holly. J. Amer. Soc. Hort. Sci. 102:46-48.
- Wright, R.D., E.P. Milhous, and C.H. Gilliam. 1977. Photographing plant material to demonstrate research reports. HortScience 12:254-255.
- Gilliam, C.H. and R.D. Wright. 1977. Effects of four nitrogen levels on soil, soil solution, and tissue nutrient levels in three container-grown Ilex cultivars. J. Amer. Soc. Hort. Sci. 102:662-664.
- Gilliam, C.H. and R.D. Wright. 1978. Effects of three nitrogen levels on tissue nitrogen fluctuation during a flush of growth on 'Helleri' holly. HortScience 13:301-302.
- Gilliam, C.H. and R.D. Wright. 1978. Timing of fertilizer application in relation to multiple flushes of growth on 'Helleri' holly. HortScience 13:300-301.
- Gilliam, C.H. and R.D. Wright. 1977. The effects of four nitrogen levels on growth of three Ilex cultivars. SNA Nursery Research Journal Vol. 4, No. 1, p. 28-33.
- Gilliam, C.H. and R.D. Wright. 1977. Study of holly nutrition and growth. Proc. of the 54th Holly Soc. of Amer. Meetings. p. 6.
- Gilliam, C.H. and R.D. Wright. 1979. Effective utilization of applied fertilizer in relation to multiple flushes of growth on 'Helleri' holly. Ohio Agric. Res. and Dev. Ctr., Res. Circ. 246:25-27.
- Gilliam, C.H. and R.D. Wright. 1979. Tissue nitrogen changes during a growth flush on 'Helleri' holly. Ohio Agric. Res. and Dev. Ctr., Res. Circ. 246: 28-30.
- Sheppard, W.J., C.H. Gilliam, and T.A. Fretz. 1979. Macronutrient stability during overwintering of 'Royal Beauty' Cotoneaster and 'Andorra' Juniper. HortScience (in press).
- Gilliam, C.H. and W.J. Sheppard. 1980. Timing of autumn fertilization on container-grown Cotoneaster. Ohio Agric. Res. and Dev. Ctr., Res.Circ. (in press).

Technical Articles

- Smith, E.M. and C.H. Gilliam. 1979. Fertilizing landscape and field grown nursery stock. The Ohio State Univ. Coop. Ext. Ser., Bul. 650.
- Gilliam, C.H. and E.M. Smith. 1980. Fertilization of container-grown stock. The Ohio State Univ. Coop. Ext. Serv., Bul. 658.

-3-

Other Published Material

- O'Dell, C.R., J. Caldwell and C.H. Gilliam. 1977. 1976 fresh market tomato variety-plastic mulch trials. Veg. Grow. Nuews. 31(8):2-3.
- Morse, R.D., R. O'Dell, C.H. Gilliam, and J. Caldwell. 1977. Effects of plastic mulches on muskmelon yields in Western Virginia. Veg. Grow. News. 31(11):2.
- Gilliam, C.H. and R.D. Wright. 1977. Research reveals nitrogen promotes holly growth. Amer. Nurseryman Jan. 1:126-128.
- Gilliam, C.H. and R.D. Wright. 1978. Container fertilization of selected Ilex. Amer. Nurseryman, June 1:8 and 62.
- Gilliam, C.H. and R.D. Wright. 1978. Monitoring fertilizer needs of container-grown holly. Amer. Nurseryman Dec. 15:10, 71-75.
- Wright, R.D., F.H. Blazich and C.H. Gilliam. 1978. Comparison of rooting with high humidity and mist propagation systems. Amer. Nurseryman, Oct. 15: p. 10 & 77.
- Gilliam, C.H. and E.M. Smith. 1978. Pine bark as a container media. Nursery Notes Vol:XI, No. 6;p 5-6.
- Gilliam, C.H. and R.D. Wright. 1979. Tissue analysis reveals changes in nitrogen content. Amer. Nurseryman. Aug. 1:p. 16 and 77.
- Gilliam, C.H. and R.D. Wright. 1979. Some aspects of tissue analysis for nitrogen. Ornamentals South 1(2):2-3.
- Gilliam, C.H. and R.D. Wright. 1979. Proper timing can mean more effective use of fertilizers. Amer. Nurseryman Oct. 1:p. 11, 63-65.
- PAPERS PRESENTED AT PROFESSIONAL MEETINGS:
- Gilliam, C.H. and R.D. Wright. 1976. Effects of nitrogen on growth of Japanese holly liners. Proc. SNA Res. Conf. 21:37.
- Gilliam, C.H. and R.D. Wright. 1977. Timing of fertilizer application in relation of episodic growth of 'Helleri' holly. Proc. SNA Res. Conf. (in press).
- Gilliam, C.H. and R.D. Wright. 1977. Effects of three nitrogen levels on episodic growth of 'Helleri' holly. Proc. SNA Res. Conf. (in press).
- Gilliam, C.H. and R.D. Wright. 1977. The effects of four nitrogen levels on soil, soil solution, plant tissue nutrient levels and growth of three container-grown Ilex cultivars. HortScience 12:409.
- Gilliam, C.H. and R.D. Wright. 1978. Frequency of fertilization on growth of Ilex crenata 'Helleri'. HortScience 13:347.
- Sheppard, W.J., C.H. Gilliam and T.A. Fretz. 1979. Macro nutrient stability during overwintering of 'Royal Beauty' Contoneaster and 'Andorra' Juniper. HortScience 14:32.

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UNIVERSITY, COLLEGE AND DEPARTMENT COMMITTEES AND ACTIVITIES:

Agricultural Library - Secretary
 Curriculum Committee - Secretary
 Greenhouse Committee
 Seminar Committee
 Local Arrangements for ASHS Meetings

SCIENTIFIC AND PROFESSIONAL SOCIETIES:

ASHS
 Phi Kappa Phi
 Sigma Xi
 Pi Alpha Xi
 International Plant Propagators Society, Inc.

GRANT OR GIFT SUPPORT RECEIVED:

| <u>Year</u> | <u>Source</u> | <u>Purpose</u> | <u>Amount</u> |
|-------------|---------------|------------------------------------|---------------|
| 1978 | OSU | Nutrient Pollution Study | \$ 4,000 |
| 1978 | HRI | Efficiency of Nitrogen Application | 500 |
| 1979 | ONA | Containerization of Taxus | 5,500 |
| 1979 | Olin Corp. | Nitrification Inhibitors | 1,500 |
| 1979-81 | O.M. Scotts | Timing of Fertilizer Application | 3,000 |

NAME: Stanley F. GorskeDATE OF BIRTH: February 26, 1949TITLE: Assistant ProfessorAGE: 30ASSIGNMENT: O.A.R.D.C. 25% O.S.U. 75% O.C.E.S. 0%EDUCATION:

| <u>Degree</u> | <u>Year</u> | <u>Institution</u> | <u>Major</u> |
|---------------|-------------|------------------------|------------------------------|
| B.S. | 1973 | Purdue University | Ornamental Horticulture |
| M.S. | 1975 | University of Illinois | Horticulture-Vegetable Crops |
| Ph.D. | 1978 | University of Illinois | Horticulture-Vegetable Crops |

POSITIONS HELD:

| | |
|------------------------------|--|
| January 1979 - Present | Assistant Professor, Department of Horticulture, The Ohio State University and The Ohio Agricultural Research and Development Center |
| January 1978 - December 1978 | Assistant Professor, Department of Soils & Crops, Rutgers University |
| August 1974 - December 1977 | Graduate Research Assistant, Department of Horticulture, University of Illinois |

YEARS AT THE OHIO STATE UNIVERSITY: 11 mos.RESIDENT INSTRUCTION:

Hort 610 - Weed Control in Horticultural Crops, S-79(33) F-79(11)
 Hort 551 - Commercial Vegetable Production I, F-79(15)
 Hort 552 - Commercial Vegetable Production II, W-80

Undergraduate Advisees - Autumn 1979 - 1

Student Organizational Involvements

Adviser to none Club

Graduate Study Involvements

Number of Advisees Past Five Years

M.S. 2 Ph.D. 0

Number of Program Completions Past Five Years

M.S. 0 Ph.D. 0RESEARCH ACTIVITIES:

Hatch 513: Cultural and Chemical Weed Control Methods in Horticultural Crops. (90% of research time is devoted to this project.)
 State 444: Evaluation of promising cultivars and selections of certain vegetable crops for fresh market (10% of research time is devoted to this project.)

O.C.E.S. INVOLVEMENTS:

No major involvements.

PUBLICATIONS:Journal Articles (Refereed)

Gorske, S.F. and D.K. Sell, 1976. Genetic differences among purslane sawfly biotypes. The Journal of Heredity 67:271-4.

Gorske, S.F., H.J. Hopen and R. Randell, 1976. Host specificity of the purslane sawfly and its response to selected pesticides. HortScience 11:580-2.

Gorske, S.F., H.J. Hopen and R. Randell, 1977. Bionomics of the purslane sawfly, Schizocerella pilicornis. Annals of the Entomological Society of America 70:104-6.

Gorske, S.F., H.J. Hopen and R. Randell, 1977. Purslane sawfly helps control common purslane. Ill. Res. 19:6-7.

Gorske, S.F. and J. Maddox, 1978. A microsporidium, Nosema pilicornis sp., n. of the purslane sawfly, Schizocerella pilicornis. Journal of Invertebrate Pathology 32:235-243.

Gorske, S.F. and H.J. Hopen, 1978. Effects of two diphenylether herbicides on common purslane (Portulaca oleracea). Weed Science 26:585-588.

Gorske, S.F. and H.J. Hopen, 1978. Selectivity of nitrofen and oxyfluorfen between Portulaca oleracea ecotypes and two cabbage (Brassica oleracea var. capitata) cultivars. Weed Science 26:640-642.

Gorske, S.F., A.M. Rhodes and H.J. Hopen, 1978. A numerical taxonomic study of Portulaca oleracea. Weed Science 27:96-102.

Gorske, S.F. and H.J. Hopen, 1979. Carrot (Daucus carota var. sativa), onion (Allium cepa), and cabbage (Brassica oleracea var. capitata) response to nitrofen and oxyfluorfen under field conditions. HortScience (in review).

Technical Articles

Gorske, S.F., H.J. Hopen and R. Randell, 1975. The purslane sawfly (Schizocerella pilicornis): as a biological control agent of common purslane (Portulaca oleracea). North Central Weed Control Conference 30:30.

Gorske, S.F. and H.J. Hopen, 1976. Purslane sawfly (Schizocerella pilicornis) as a biological control agent of common purslane (Portulaca oleracea L.). HortScience 11 (3):326.

Gorske, S.F., H.J. Hopen and A.M. Rhodes, 1977. Studies of the biology and herbicidal effects on Portulaca oleracea L. HortScience 12 (4):385.

Gorske, S.F., H.J. Hopen and R. Randell, 1978. Purslane sawfly helps control common purslane. Proc. 1978 Ill. Veg. Growers School. pp. 71-72.

- Gorske, S.F., 1978. Weed Control for Vegetables Grown on clear plastic mulch. Proc. Nat'l. Agric. Plastics Assn. (in press).
- Gorske, S.F., 1978. 1978 Evaluation of herbicides for vegetable crops. Rutgers Univ. Dept. of Soils and Crops., 19 p.
- Gorske, S.F., 1978. Weed control in vegetables. Proc. Mid-Atlantic Vegetable Production Workers Conf. 8th Annual Meeting.
- Gorske, S.F., 1979. Weed Control for Vegetables on clear plastic mulches. Proc. Northeastern Weed Sci. Soc. 33:161-165.
- Gorske, S.F., 1979. Chemical weed control with activated carbon in direct-seeded asparagus. HortScience 14 (3):469.
- Gorske, S.F., 1979. Transplant tomato varietal tolerance to metribuzin. North Central Weed Control Conference (in press).
- Gorske, S.F., et. al. 1979. Commercial Vegetable Production Recommendations, New Jersey 1979. Rutgers Coop. Ext. Serv. Bull. 406-F.
- Wittmeyer, E.C., S.F. Gorske, et. al. 1979. Ohio Guidelines for Production of Machine Harvested Tomatoes - 1979. Ohio Coop. Ext. Serv. Bull. 647. pp. 12-14.
- Wittmeyer, E.C., S.F. Gorske, et. al. 1980. Ohio Guidelines for Production of Machine Harvested Tomatoes - 1980. Ohio Coop. Ext. Serv. Bull. 647.
- Alban, E.K., W.M. Brooks, E.C. Wittmeyer, and S.F. Gorske, 1980. Herbicides for Weed Control in Vegetable Crops - 1980. Ohio Coop. Ext. Serv. Bull.
- Gorske, S.F., 1980. Green Pepper and Eggplant tolerance to metribuzin. Proc. Northeastern Weed Sci. Soc. (in press)
- Gorske, S.F., 1980. Weed Control for muskmelons grown on plastic mulch. Proc. Northeastern Weed Sci. Soc. (in press)

Other Published Materials

- Gorske, S.F., H.J. Hopen and R. Randell, 1978. Purslane sawfly helps control common purslane. Ill. State Florist Assoc. Bull. 378:18-20.
- Gorske, S.F., H.J. Hopen and R. Randell, 1978. Case of the purslane sawfly. American Vegetable Grower Vol. 26, 8:14-15.
- Gorske, S.F., H.J. Hopen and R. Randell, 1978. Purslane sawfly - a control for purslane. Florist Review. Sept. 14:73-76.
- Gorske, S.F., 1979. Weed Control on Plastic. American Vegetable Grower. Vol. 27, 2:13-14.
- Gorske, S.F., 1979. Potato weed control. The Ohio Potato Growers Assn. April, 5-7.

Gorske, S.F., 1979. Controlling Weeds in the Greenhouse. Ohio State Univ. Comm. Floriculture Notes for Growers. Vol. 1, 2:3-4.

Gorske, S.F., H.J. Hopen and R. Randell, 1979. Purslane sawfly helps control common purslane. Weeds Today (in press)

MAJOR OUT OF STATE SPEAKING ENGAGEMENTS:

New England Vegetable Growers Association - 475th Meeting, Waltham, MA. December 1978. "What's New in Weed Control."

New Jersey Annual Vegetable Meeting - 22nd Annual Meeting, Atlantic City, NJ. January 1979. "Weed Control for Tomatoes," "Herbicides Under Clear Plastic with Trickle Irrigation on Eggplant, Cucumbers, and Transplanted Muskmelons," "Problems and What's New in Weed Control."

Pennsylvania State Vegetable Growers Association - Annual Meeting, Hershey, PA. December 1979. "What To Do About Escape Weeds."

UNIVERSITY, COLLEGE AND DEPARTMENT COMMITTEES AND ACTIVITIES:

Integrated Pest Management Committee, 1979 - present
Ohio Processing Tomato Industry Steering Committee, 1979 - present
Interregional Committee on Pesticides for Minor Crops (IR-4), 1979 - present
Horticulture Farm Committee, Chairman, 1979 - present
Tomato Processing Day Committee, 1979
Farm Science Review Committee, 1980
Curriculum Committee, 1979 - 1982
Social Activities Committee, 1979

NON-UNIVERSITY PROFESSIONAL ACTIVITIES:

Educational Programs

Weed Science Field Day - Rutgers R & D Center, Bridgeton. 1978.
Weed Control Twilight Meeting - Rutgers R & D Center, Bridgeton. 1978.
Open House - OSU Department of Horticulture, Vegetable Crops Farm, Columbus. 1979.
Farm Science Review - 1979. "Use of Mulches."

Speaking Engagements

North Central Weed Control Conference - Annual Convention, Milwaukee, WI. December 1975. "The Purslane Sawfly (Schizocerella pilicornis): as a Biological Control Agent of Common Purslane (Portulaca oleracea L.)."

American Society for Horticultural Science - 73rd Annual Meeting, Baton Rouge, LA. August 1977. "Purslane Sawfly (Schizocerella pilicornis): as a Biological Control Agent of Common Purslane (Portulaca oleracea)."

American Society for Horticultural Science - 74th Annual Meeting, Salt Lake City, UT. August 1978. "Studies of the Biology and Herbicidal Effects on Portulaca oleracea L."

National American Plastic Association - 14th Agricultural Plastics Congress, Miami Beach, FL. November 1978. "Weed Control for Vegetables Grown on Clear Plastic Mulch."

Northeastern Weed Science Society - 33rd Annual Convention, Boston, MA.
January 1979. "Weed Control for Vegetables on Clear Plastic Mulch."

Northcentral Weed Control Conference - Annual Convention, Milwaukee,
WI. December 1979. "Transplant Tomato Varietal Tolerance to Metri-
buzin."

Northeastern Weed Science Society - 34th Annual Convention, Grossinger,
NY. January 1980. "Green Pepper and Eggplant Tolerance to Metri-
buzin," "Weed Control for Muskmelons Grown on Plastic Mulch."

SCIENTIFIC AND PROFESSIONAL SOCIETIES:

American Society for Horticultural Science
Weed Science Society of America
Northeastern Weed Science Society
Northcentral Weed Science Society
National Agricultural Plastics Association
Gamma Sigma Delta

GRANT OR GIFT SUPPORT RECEIVED:

| <u>Year</u> | <u>Source</u> | <u>Purpose</u> | <u>Amount</u> |
|-------------|-------------------------------|----------------------|---------------|
| 1979 | American Hoechst | Weed Control Studies | \$1400.00 |
| 1979 | Chevron Chemical Co. | Weed Control Studies | 1200.00 |
| 1979 | Mobay | Weed Control Studies | 500.00 |
| 1979 | Ciba Geigy | Weed Control Studies | 500.00 |
| 1979 | Uniroyal | Weed Control Studies | 1250.00 |
| 1979 | Stauffer | Weed Control Studies | 300.00 |
| 1979 | Monsanto | Weed Control Studies | 500.00 |
| 1979 | DuPont | Weed Control Studies | 500.00 |
| 1979 | Diamond Shamrock | Weed Control Studies | 750.00 |
| 1979 | Eli Lilly | Weed Control Studies | 500.00 |
| 1979 | Ohio Food Processors Assn. | Weed Control Studies | 1000.00 |

COMMENTS:

My research responsibilities include designing and conducting weed control research experiments in vegetable crops. This would be accomplished by chemical, cultural and biological means. Greenhouse and laboratory experiments are also conducted to help solve problems that are observed in the field.

I have a 75% teaching appointment which requires me to teach 3 courses during the year. Along with this I am actively working to establish a strong graduate program in horticultural weed control. The chemical companies recognize the need for this type of a program and thus the reason for their strong support.

Prior to my faculty appointment at The Ohio State University I held a faculty position at Rutgers University. While at Rutgers I was responsible for teaching a Principles of Weed Control course which was offered to upper classmen and graduate students. I was also involved in a vegetable crops weed control program very similar to the one which I have here at OSU. Part of my appointment was in Extension where I spent a considerable amount of time speaking at grower meetings and assisting growers at their farms.

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Wilbur A. Gould

DATE OF BIRTH: Aug. 7, 1920

Professor

AGE: 59ASSIGNMENT: O.A.R.D.C. 50% O.S.U. 50%EDUCATION:

| <u>Degree</u> | <u>Year</u> | <u>Institution</u> | <u>Major</u> |
|---------------|-------------|--------------------|--------------|
| B.S. | 1942 | Univ. of N.H. | Horticulture |
| M.S. | 1947 | Ohio State Univ. | Horticulture |
| Ph.D. | 1949 | Ohio State Univ. | Horticulture |

POSITIONS HELD:

Ohio State University -- 1947 to present. Instructor to
Professor (1957)

U.S. Navy -- 1944-46. Storekeeper (Food Inspector)

U.S. Department of Agriculture -- 1942-44. Marketing Specialist
(Food Inspector)

YEARS AT THE OHIO STATE UNIVERSITY: 33

RESIDENT INSTRUCTION:

Courses Taught Past Five Years:

Hort 241 - Food Preservation, Sp-75(44), Sp-76(42), Sp-77(45),
Sp-78(27), Sp-79(43)

441 - Fundamentals of Food Processing, W-75(34), W-76(34), W-77(40),
F-78(12), W-78(41), F-79(24)

442 - Quality Assurance, Sp-75(24), Sp-76(34), Sp-77(30), Sp-78(21),
Sp-79(27)

546 (646*) Beverages, F-75(19)*, F-76(18)*, F-77(15), F-78(16),
Sp-79(13)

640 (741*) Food Regulations, W-75(35)*, W-76(44)*, W-78(40),
F-78(22), W-78(42), F-79(35)

641 - Commercial Food Processing, Su-75(17), Su-76(29), Su-77(20),
Su-78(15), Su-79(21)

742 - Research & Development, W-75(14), W-76(17), W-77(12), W-78(14),
Sp-79(7)

841 - Adv. Food Processing and Technology, F-77(10), F-78(7),
Su-79(5)

794a - Food Plant Sanitation, Su-75(15), Su-76(19)

794b - Color Methodology, Sp-75(16), Sp-76(19)

Undergraduate Advisees - 26

Student Organizational Advisor - Food Tech Club

| Graduate Students Advisor - | <u>Ms.</u> | <u>Ph.D.</u> |
|-----------------------------|------------|--------------|
| 1975 | 11 | 7 |
| 1976 | 9 | 4 |
| 1977 | 12 | 7 |
| 1978 | 9 | 7 |
| 1979 | 10 | 6 |

| Graduate Students Completions - | <u>Ms.</u> | <u>Ph.D.</u> |
|---------------------------------|------------|--------------|
| 1975 | 5 | 2 |
| 1976 | 8 | 4 |
| 1977 | 9 | 4 |
| 1978 | 6 | 2 |
| 1979 | 4 | 3 |

RESEARCH ACTIVITIES:

Hatch 544 "Processing Efficiency and Market Acceptability of Cultivar of Tomatoes for Canning" (50%)

Study of effect of new cultivars as they relate to processing efficiency by specific unit operations and the quality therefrom.

Hatch 463 "Factors Affecting Market Quality of Processed Potatoes (50%)

Cultivar by specific handling treatments and storage regimes are processed as chips, fries and canned diced potatoes. Efforts are directed to determine cultivar parameters as they relate to product quality.

O.C.E.S. INVOLVEMENTS:

No direct assignment, but annually conduct the following program:

1. 4-Day FDA Thermal Process School in March with 105 attendees in 1979.
2. 3-Day Ohio Food Processors short course in March with 49 attendees in 1979.
3. 5-Day Potato Chip/Snack Food Quality Control short course in May with 23 attendees in 1979.
4. 2-Day Tomato Process Quality Control Technologist school in July with 15 attendees in 1979.
5. 3-Day Food Plant Sanitation School in November with 32 attendees in 1979.

In addition 20 plus plant visits are usually made annually to assist processors with on-site problems. Phone calls and industry representative visits and the OSU lab are also a major activity.

OUT OF STATE SPEAKING - 1979:

- January 19 - The Role of Quality Assurance in Equipment
Productivity and Cost
San Francisco - 59 attendees
Food Processors Institute Seminar
- January 20 - My Product - People
San Francisco - 260 attendees
49er Service Award Address
- January 27 - Research Up-Date
New Orleans - 390 attendees
Potato Chip/Snack Food Administration Meeting
- April 24 - USA Potato Chip Technology and Research Up-Date
Amsterdam, Holland - 79 attendees
Potato Chip Industry Research Group Workshop
- April 27 - Quality-Assurance All Day Seminar
London, England - 42 attendees
Smith Food Group Management Board
- May 7 - Mold in Tomatoes
Co-authored with N. Kallas
Association of Official Analytical Chemists
San Francisco - 250 attendees
- October 19 - Salting and Seasoning Potato Chips and Snacks
Miami, Florida - 120 attendees
Southern Regional Potato Chip/Snack Food Association

HONORS AND AWARDS:

- Ohio Valley Session IFT - Man of Year Award 1978
- Ozark Cannery and Freezers Association - Man of Year Award 1978
- 49er International Food Service Award - 1979

GRANTS

- 1979 - Ohio Food Proc. Association - Bulk Storage 3,500.--
- Diamond Crystal Salt Co. - Seasoning and Salt 7,500.--
- California Tomato Research - Mold in Raw Tomatoes 15,000.--
- Potato Chip Snack Food Association - Potato Chip
Quality 25,544.--

PUBLICATIONS

Books

Tomato Production, Processing and Quality Evaluation. 1974.
(445 pp.) AVI Publishing Co. Inc.

Quality Control Procedures for the Manufacture of Potato Chips
and Snack Foods. 1976. (69 pp.) Potato Chip/Snack Food Assoc.

Quality Assurance Manual for the Manufacture of Potato Chips and Snack Foods. 1976. (78pp.) Potato Chip/Snack Food Association.

Food Quality Assurance. 1977. (314 pp.) AVI Publishing Co. Inc.

Good Manufacturing Practices for Snack Food Manufacturers. 1977 (73pp.) Potato Chip/Snack Food Association.

Articles

"Evaluation of Tomato Cultivars for Processing." W.A. Gould and R. Stillabower. Ohio Agricultural Research and Development Center Research Circular 213, January 1976.

"Physical And Subjective Color Evaluation of Tomato Juice." Kenneth L. Beck and W.A. Gould. Ohio Agricultural Research and Development Center Research Circular 213, January 1976.

"Flavor Evaluation of Tomato Juice Fortified with Sugar and Citric Acid." J.A. Gould and W.A. Gould. Ohio Agricultural Research and Development Center Research Circular 213, January 1976.

"Effects of Citric Acid and Sugar Ratios on Thermal Resistance of Bacillus coagulans var. thermoacidurans in Tomato Juice." Dennis L. Gierhart and W.A. Gould. Ohio Agricultural Research and Development Center Research Circular 213, January 1976.

"Evaluation of Snap Bean Cultivars for Processing." W. Gould, J. Gould, J. Mount, M. Skoog, and R. Stillabower. Ohio Agricultural Research and Development Center Research Circular 213, January 1976.

"Evaluation of Tomato Cultivars for Processing." W.A. Gould, R. Stillabower and D. Grindell. Ohio Agricultural Research and Development Center Horticulture Series No. 437, February 1976.

"Evaluation of Snap Bean Cultivars for Processing." W.A. Gould and R. Stillabower. Ohio Agricultural Research and Development Center Horticulture Series No. 437, February 1976.

"Flame Sterilization of Canned Green Beans." J.R. Mount and W.A. Gould. Ohio Agricultural Research and Development Center Horticulture Series No. 437, February 1976.

"Flame Sterilization of Canned Peas." J.R. Ice, J.R. Mount and W.A. Gould. Ohio Agricultural Research and Development Center Horticulture Series No. 437, February 1976.

"Flame Sterilization of Other Canned Products." John Mount and W.A. Gould. Ohio Agricultural Research and Development Center Horticulture Series No. 437, February 1976.

"Determination of Factors Affecting Heat Penetration in Flame Sterilized Canned Whole Kernel Sweet Corn." R. Joseph and W.A. Gould. Ohio Agricultural Research and Development Center Horticulture Series No. 437, February 1976.

"Geotrichum candidum: The New FDA Indicator of Plant Sanitation For the Food Processing Industry." J.G. Fox and W.A. Gould. Ohio Agricultural Research and Development Center Horticulture Series No. 437, February 1976.

"The Development of a Fish Spread by the Utilization of Freshwater Drum From Lake Erie." J.D. Morgan and W.A. Gould. Ohio Agricultural Research and Development Center Horticulture Series No. 437, February 1976.

"Development of a Sausage Product From Lake Erie Freshwater Drum." S. Hauck and W.A. Gould. Ohio Agricultural Research and Development Center Horticulture Series No. 437, February 1976.

"Utilization of Lake Erie Freshwater Drum for Fish Sticks." W. Stone and W.A. Gould. Ohio Agricultural Research and Development Center Horticulture Series No. 437, February 1976.

"Acidification and Thermal Processing of Tripolyphosphate Treated Freshwater Drum Fillets." T.F. Chin and W.A. Gould. Ohio Agricultural Research and Development Center Horticulture Series No. 437, February 1976.

"Stability of Ascorbic Acid in Fortified Apple Juice." M.I. Mahmoud and W.A. Gould. Ohio Agricultural Research and Development Center Horticulture Series No. 437, February 1976.

"Evaluation of Tomato Cultivars for Processing." W.A. Gould, W. Stone, J. Mount, L. Witt, Y. Yamada, and S.Z. Berry. Ohio Agricultural Research and Development Center Research Circular 240, August 1978.

"Geotrichum Candidum in Midwestern Tomato Processing Plants and Various Methods of Inhibiting its Growth." James G. Fox and Wilbur A. Gould. Ohio Agricultural Research and Development Center Research Circular 240, August 1978.

"Effects of Various Qualities of Raw Tomatoes (Subjective Evaluation) on Color of Extractable Juice (Objective Evaluation)." Yasunori Yamada and Wilbur A. Gould. Ohio Agricultural Research and Development Center Research Circular 240, August 1978.

"Effects of Cultivar, Break Temperature, and Extraction Methods on the Viscosity of Tomato Juice." Hashmy Bel-Haj and Wilbur A. Gould. Ohio Agricultural Research and Development Center Research Circular 240, August 1978.

"A Study of Some Factors Affecting the Solid Content of Canned Tomatoes." J.R. Mount and W.A. Gould. Ohio Agricultural Research and Development Center Research Circular 240, August 1978.

"Prediction of Ascorbic Acid Stability in Canned Apple Juice." Mohamed I. Mahmoud and Wilbur A. Gould. Ohio Agricultural Research and Development Center Research Circular 240, August 1978.

"Use of Ultraviolet Light to Inhibit Staphylococcus aureus Growth on the Surface of Baked Pumpkin Pie." Nicholas N. Kallas and Wilbur A. Gould. Ohio Agricultural Research and Development Center Research Circular 240, August 1978.

"Development of a Nutritionally Improved Corn Masa." Thomas H. Rieman and Wilbur A. Gould. Ohio Agricultural Research and Development Center Research Circular 240, August 1978.

"Mechanical Deboning of Lake Erie Freshwater Drum." W.E. Stone and W.A. Gould. Ohio Agricultural Research and Development Center Research Circular 240, August 1978.

"Lake Erie Freshwater Drum Fillet Processing, Storage, and Evaluation." W.E. Stone and W.A. Gould. Ohio Agricultural Research and Development Center Research Circular 240, August 1978.

"Evaluation of Tomato Cultivars for Processing." W.A. Gould, W.S. Stone, Hasan Fenercioglu, and S.Z. Berry. Ohio Agricultural Research and Development Center Research Circular 250, July 1979.

"Prediction of Finished Product Juice Color from Raw Product Tomato Color." Dennis Inkrott and W.A. Gould. Ohio Agricultural Research and Development Center Research Circular 250, July 1979.

"Effects of Concentration and Reconstitution on Tomato Juice Quality." Hasan Fenercioglu and W.A. Gould. Ohio Agricultural Research and Development Center Research Circular 250, July 1979.

"Homogenized Tomato Juice Mold Counts and Process Identification." Nicholas N. Kallas and W.A. Gould. Ohio Agricultural Research and Development Center Research Circular 250, July 1979.

"Effects of Comminution on Mold in Tomato Products." Nicholas N. Kallas and W.A. Gould. Ohio Agricultural Research and Development Center Research Circular 250, July 1979.

"Use of Diacetylfluorescein to Monitor Tomato Juice for Microbial Contamination." Richard Basel and W.A. Gould. Ohio Agricultural Research and Development Center Research Circular 250, July 1979.

"The Effects of Microbial Load on Anaerobic Spoilage of Various Tomato Juice Formulations." Richard Basel and W.A. Gould. Ohio Agricultural Research and Development Center Research Circular 250, July 1979.

"Evaluation of Potato Cultivars for Storage and Chipping." W.A. Gould, N.S. Confar, W.E. Stone, Hasan Fenercioglu, B.L. Hair, F.V. Huber, J.G. Stover, and J.M. Pisarczyk. Ohio Agricultural Research and Development Center Research Circular 250, July 1979.

"Relationship of Sucrose Content in Raw Potatoes to Color of Chips from Stored Potatoes." F.V. Huber and W.A. Gould. Ohio Agricultural Research and Development Center Research Circular 250, July 1979.

"Reconditioning of Cold-Stored Potato Tubers as Influenced by Harvest Maturity." B.L. Hair and W.A. Gould. Ohio Agricultural Research and Development Center Research Circular 250, July 1979.

"Role of Glucose and Sucrose in Potato Chip Discoloration." B.L. Hair and W.A. Gould. Ohio Agricultural Research and Development Center Research Circular 250, July 1979.

"Harvest Sucrose Content as an Indicator of Post-Storage Processing Performance." B.L. Hair and W.A. Gould. Ohio Agricultural Research and Development Center Research Circular 250, July 1979.

"Evaluation of Potato Cultivars Before and After Storage Regimes for Chipping." Wilbur A. Gould, Bradford Hair and Atallah Baroudi. American Potato Journal. Vol. 56. (1979)

UNIVERSITY, COLLEGE AND DEPARTMENT COMMITTEES AND ACTIVITIES:

- | | |
|----------------|---|
| University | - Graduate School Ph.D. Exam (3 in 1979) |
| College | - Food Technology Committee - Chairman Awareness Committee, Chairman of Committee 1 |
| Department | - Graduate Committee Promotion and Tenure Committee Safety Committee |
| ASHS | - Annual Meeting Executive Committee - member Food Service Committee - Chairman |
| Non-university | - Executive Vice-President, Ohio Food Processors Association Food Technologist, Potato Chip/Snack Food Association Chairman, Financial Crusade for Worthington United Methodist Church (Operating Budget-- Building Program) |

PAPERS PRESENTED AT PROFESSIONAL MEETINGS:

In addition to speaking engagements above, several papers on Research and OCES Short Courses.

SCIENTIFIC AND PROFESSIONAL SOCIETIES:

IFT
OVIFT
ASHS
ASQC

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NAME: Fred O. HartmanDATE OF BIRTH: 10-20-15TITLE: ProfessorAGE: 64ASSIGNMENT: O.A.R.D.C. 20% O.S.U. 80% O.C.E.S. -EDUCATION:

| <u>Degree</u> | <u>Year</u> | <u>Institution</u> | <u>Major</u> |
|---------------|-------------|---------------------------|-------------------------|
| B. S. | 1937 | University of Toledo | Biology |
| M. S. | 1941 | The Ohio State University | Horticulture (Pomology) |
| Ph.D. | 1951 | The Ohio State University | Horticulture (Pomology) |

POSITIONS HELD:

| | | |
|-------------|--|-------------|
| 1962 - | Professor of Horticulture | OSU & OARDC |
| 1953 - 1962 | Assoc. Prof. of Horticulture | OSU & OARDC |
| 1951 - 1953 | Asst. Prof. of Horticulture | OSU & OARDC |
| 1948 - 1951 | Instructor | OSU & OARDC |
| 1947 - 1948 | Assistant | OSU & OARDC |
| 1946 - 1947 | Graduate Assistant | OSU |
| 1945 - 1946 | Instructor in Agriculture, U.S. Army Rehabilitation Center | |
| 1943 - 1945 | Operations Officer, Medical Administrative Officer Candidate School, U.S. Army | |
| 1942 - 1943 | Medical Technician, U. S. Army | |
| 1938 - 1939 | Private Tutor and Medical Companion | |

YEARS AT THE OHIO STATE UNIVERSITY: 35RESIDENT INSTRUCTION: Courses Taught

Agronomy 200 - Plant Science in Agriculture W-75 (67), W-76 (62), W-77 (68)

Hort. 202 - Fruits and Vegetables for Man A-77 (33), A-78 (34), A-79 (23)

Hort. 203 - Horticultural Morphology Sp-75 (63), A-75 (53), Sp-76 (57),
A-76 (48), Sp-77 (31), W-78 (14), Sp-78 (19), W-79 (16),
Sp-79 (18)

Hort. 293 - Individual Studies Su-76 (2), A-76 (2)

Hort. 461 - Principles of Tree Fruit Production A-75 (34), A-76 (21),
A-77 (24), A-78 (23), A-79 (16)

Hort. 462 - Principles of Small Fruit Production W-75 (28), W-76 (31), W-77 (25),
W-78 (21), W-79 (25)

Hort. 463 - Principles of Stone Fruit Production Sp-77 (16), Sp-78 (17), Sp-79 (11)

Hort. 489 - Hort. Industries Experience Su-79 (2)

Hort. 593 - Individual Studies W-75 (1), A-75 (1), W-76 (2), Sp-76 (3), Su-76 (1),
W-76 (2), A-77 (1), Su-79 (1)

Hort. 611 - Tropical & Subtropical Fruit and Vegetable Production A-75 (5),
A-76 (11), A-77 (8), A-78 (8), A-79 (6)

- Hort. 801 a - Morphological and Anatomical Studies of Flowering and Fruiting
Sp-75 (3), Sp-76 (1)
- Hort. 806 - Morphological and Anatomical Studies of Horticultural Plants
W-77 (3), W-79 (1)
- Hort. 993 - Individual Studies Sp-77 (1), A-77 (1), W-77 (1)
- Hort. 999 - Research Thesis or Dissertation W-75 (1), Sp-75 (2), Su-75 (1),
A-75 (1), W-76 (2), Sp-76 (1)

Undergraduate Advisees - Autumn 1979 - 20

Student Organizational Involvements

Advisor to Univ. Fruit & Vegetable Society - 30 Years (Some Kind of Record)

Graduate Study Involvements

Number of Advisees Past Five Years

M. S. - 3

Ph.D. - 2

Number of Program Completions Past Five Years

M. S. - 1

Ph.D. - 2

RESEARCH ACTIVITIES:

Hatch 474 - Development and Evaluation of Systems for Intensive Production of
Stone Fruits (20%).

Research in connection with this project is conducted at Wooster,
Jackson, Canfield and Columbus.

O.C.E.S. INVOLVEMENTS:

During my service in this department, there have been six Extension Fruit Specialists on the staff from 1946 until 1979. During the 5 intervals which elapsed between the services of these specialists, I - being the only pomologist located at Columbus, have unofficially performed a good amount of extension activities. The 5 intervals referred to above consisted of 8, 11, 11, 10 and 4 months - for a total of 44 months.

PUBLICATIONS:

Journal Articles (Referreed)

Hamzakhey1, N., D. C. Ferree and F. O. Hartman. Effect of Lateral Shoot Orientation on Growth and Flowering of Young Apple Trees. HortScience 11(4): 393-395. 1976.

Sharma, Dharam P., David C. Ferree and Fred O. Hartman. Effect of Some Soil-Applied Herbicides on Net Photosynthesis and Growth of Apple Trees. HortScience 12(2):153-154. 1977.

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Sharma, Dharam P., David C. Ferree and Fred O. Hartman. Multiple Applications of Dicofol and Dodine Sprays and Net Photosynthesis of Apple Leaves. Hort-Science 12(2):154-155. 1977.

Sharma, Dharam P., David C. Ferree and Fred O. Hartman. Influence of Pesticides on Photosynthesis in Apple (Malus Domestica Bork.) Pesticides (Indian Journal). Vol. XII. No. 7 July 1978. 16-19.

Technical Articles

Hartman, Fred O. High density stone fruit plantings. Fruit Crops Field Day - 1975. OARDC (Wooster, Ohio). 18-19.

Hartman, Fred O. Pushing peaches to perform. American Fruit Grower. April 1976. 24-25.

Ferree, D.C. and Fred O. Hartman. Management systems for high density orchards. Orchard Day-1976. OARDC (Wooster, Ohio). August 1976.

Stang, Elden J., David C. Ferre and Fred O. Hartman. Apple cultivars for Ohio. American Fruit Grower. Dec. 1976. 12-13.

Stang, Elden J., David C. Ferree and Fred O. Hartman. Fruit tree propagation. Cooperative Extension Service. The Ohio State Univ. Bul. 481. 1978.

Hartman, Fred O. and David C. Ferree. High density peach research. 1978 Fruit Crops Field Day. Aug. 1978. 12.

Hartman, F.O. and R.G. Hill, Jr. Planting distances vs. yield and amount of pruning time of peach trees. Fruit Crops-1978. A Summary of Research. OARDC (Wooster, Ohio). Res. Circ. 239. July 1978. 3-4.

Other Published Materials

Hartman, Fred O. Book review of Modern Fruit Science by N.F. Childers. Hort-Science 11(5). October 1976. 527.

UNIVERSITY, COLLEGE AND DEPARTMENT COMMITTEES AND ACTIVITIES:

- Curriculum Committee
- Farm Science Review Committee
- Social Committee
- Fruit School Committee
- Undergraduate Committee
- Seminar Committee
- Fruit Industry Task Force
- Recruitment
- Undergraduate Academic Advising

NON-UNIVERSITY PROFESSIONAL ACTIVITIES:

- Committees of Ohio Fruit Growers Society
- Chairman, Collegiate Activities Committee of American Society for Horticulture Science.
- ASHS Committee on Nominations, Elections and Appointments

-4-

PAPERS PRESENTED AT PROFESSIONAL MEETINGS:

Only prior to 1975

SCIENTIFIC AND PROFESSIONAL SOCIETIES:

American Society for Horticultural Science
American Society for Horticultural Science - Tropical Region
International Dwarf Fruit Tree Association
American Pomological Society
Ohio Fruit Growers Society
Sigma Xi
Gamma Sigma Delta

HONORS AND AWARDS:

1972 - Life Membership in Ohio Fruit Growers Society
1976 - 35 Years Service to Ohio Agricultural Research & Development Center
1978 - 30 Years Service to The Ohio State University

GRANT OR GIFT SUPPORT RECEIVED:

I believe it appropriate to state here that contributions to the Ohio Fruit Growers Society Scholarship Fund by many of my former students have averaged several hundred dollars per year from 1961 to present.

COMMENTS:

Other involvements, responsibilities and accomplishments include:
Managing Ohio State University Orchards and fruit plantings at Lane Avenue Farm, Don Scott Airport and Overlook Farm.

Professional improvement by traveling and studying tropical, subtropical and temperate fruit production in Mexico during winter 1968.

Attending meetings of Tropical Region of American Society for Horticultural Science in:

Nicaragua - 1971
Costa Rica - 1973
Guatemala - 1975
Hawaii - 1975
Ecuador - 1977

NAME: Robert G. Hill, Jr.

DATE OF BIRTH: January 11, 1922

TITLE: Professor and Associate Chairman

AGE: 58

ASSIGNMENT: O.A.R.D.C. 75% O.S.U. 10% O.C.E.S. 15%

EDUCATION:

| <u>Degree</u> | <u>Year</u> | <u>Institution</u> | <u>Major</u> |
|---------------|-------------|------------------------|--------------|
| B.S. | 1945 | University of Maryland | Horticulture |
| M.S. | 1948 | University of Maryland | Horticulture |
| Ph.D. | 1950 | University of Maryland | Horticulture |

POSITIONS HELD:

1970- Professor and Associate Chairman, Horticulture - OARDC-OSU
 1960-1970 Professor, Horticulture - OARDC-OSU
 1957-1960 Associate Professor, Horticulture - OARDC-OSU
 1950-1957 Assistant Professor, Horticulture - OARDC-OSU

YEARS AT THE OHIO STATE UNIVERSITY: 29

RESEARCH ACTIVITIES:

Hatch 474 Rootstocks and Management Systems for High Density Stone Fruit Plantings

Hatch 485 Evaluation of Promising Selections and Cultivars for Certain Tree and Small Fruits for Ohio

Hatch 513 Cultural and Chemical Weed control Methods in Horticultural Crops

SS 229 Breeding Thornless Blackberries for Winter Hardiness and Improved Horticultural Characters

PUBLICATIONS:

- X Hill, R.G., Jr., J.D. Utzinger and E.J. Stang. 1974. Growing Strawberries. Ohio Coop. Ext. Ser. Bul. 436.
- Hill, R.G., Jr. and E.K. Alban. 1975. Chemical weed control in fruit crops. Ohio Coop. Ext. Ser. Bul. 506:67-72.
- Hill, R.G., Jr. and H.M. Racer. 1975. Strawberry cultivar evaluation. OARDC Fruit Crops Field Day. pp. 6-8.
- Hill, R.G., Jr. and E. K. Alban. 1976. Chemical weed control in fruit crops. Ohio Coop. Ext. Ser. Bul. 506.
- Hill, R.G., Jr. and E.K. Alban. 1977. Chemical weed control in fruit crops. Ohio Coop. Ext. Ser. Bul. 506:70-76.
- X Hill, R.G., Jr., J.D. Utzinger and E.J. Stang. 1977. Strawberries like full sun and a good deal of attention. Yearbook of Agric./1977. pp. 265-271.

-2-

PUBLICATIONS (cont.):

Hill, R.G., Jr., R.N. Williams, R.A. Spotts and J.D. Farley. 1979. Ohio Commercial Spray Guide. OCES Bul. 1506.

UNIVERSITY, COLLEGE AND DEPARTMENT COMMITTEES AND ACTIVITIES:

Grounds Committee, OARDC 1979-80
 Field and Special Day Committee, OARDC 1979-80
 Fruit Industry Committee, OSU 1979-80
 Off-Campus Executive Committee, OSU 1978-79
 NC-7 Representative, OARDC 1978-80
 NCR-22 Representative, OARDC 1975-80

NON-UNIVERSITY PROFESSIONAL ACTIVITIES:

ASHS Local Arrangement Committee 1979
 ASHS Horticultural Administration Committee 1980
 OFGS Research Committee 1975-79

SCIENTIFIC AND PROFESSIONAL SOCIETIES:

American Horticultural Society
 American Pomological Society
 American Society for Horticultural Science (Fellow)
 Dwarf Fruit Tree Association
 International Society for Horticultural Science
 Ohio Florists Association
 Ohio Fruit Growers Association
 Weed science Society of America
 Sigma Xi

HONORS AND AWARDS:

Gamma Sigma Delta
 Sigma Xi
 Fellow, American Society for Horticultural Science - 1975

GRANT OR GIFT SUPPORT RECEIVED:

| <u>Year</u> | <u>Source</u> | <u>Purpose</u> | <u>Amount</u> |
|---------------|---------------|---|---------------------|
| 1974- 1982 | USDA- SEA | Breeding thornless blackberries for winter hardiness and improved horticultural char- acteristics-SS 229. | \$4,000 per year |

COMMENTS:

Shares leadership responsibilities for and coordination of departmental research, teaching and extension programs with particular emphasis upon the activities on the Wooster campus.

NAME: Makoto KawaseDATE OF BIRTH: May 20, 1926TITLE: ProfessorAGE: 53ASSIGNMENT: O.A.R.D.C. 100%O.S.U. 0%O.C.E.S. 0%EDUCATION:

| <u>Degree</u> | <u>Year</u> | <u>Institution</u> | <u>Major</u> |
|---------------|-------------|-------------------------|---------------------------|
| B. of Agr. | 1951 | University of Tokyo | Horticulture |
| M. of Agr. | 1954 | University of Tokyo | Horticulture |
| MS | 1958 | University of Minnesota | Horticulture |
| Ph.D. | 1960 | Cornell University | Flor. & Orn. Horticulture |

POSITION HELD:

Professor, Department of Horticulture, O.A.R.D.C., 1970-up to date.

Associate Professor, Department of Horticulture, O.A.R.D.C., 1966-1970.

Plant Physiologist, Canadian Department of Agriculture, Morden, Manitoba, 1962-1966.

Assistant Professor (Temp.), Department of Horticulture, Purdue University, 1960-1962.

YEARS AT THE OHIO STATE UNIVERSITY: 13 yearsRESIDENT INSTRUCTION:

Courses Taught Past Five Years (partially)

Hort 814 - Physiology of Horticultural Plants, F-78(7), F-79(14)

Hort 533 - Management of Commercial Nursery Operation, S-78(23)

Undergraduate Advisees - None

Student Organizational Involvements - None

Graduate Study Involvement - (1/1/75 to 1/1/80) Advised many graduate students but not as an advisor.

RESEARCH ACTIVITIES:

Hatch 618 Physiology and control of waterlogging damages in horticultural plants (60%). Physiological differences between water-tolerant and intolerant horticultural crops are pursued. A quick method to screen water-tolerant species or cultivars are sought.

Hatch 642 Evaluation of selected woody ornamentals and shade trees (20%). Ornamental values of landscape plants, which are mostly obtained from the NC Regional Plant Introduction Station, U.S.D.A. are evaluated. Woody species in Manchuria, Northern Korean Peninsula, Northern Japan, and Southern Saghalin which are adaptable to the North-Central States are studied to aid the plant exploration in those countries by the North-Central States.

Hatch 655 Root stimulation of softwood cuttings with etiolation and natural rooting substances (20%). Causes of etiolation for better rooting is physiologically and morphologically studied. Chemical identification of willow rooting substance is pursued.

O.C.E.S. INVOLVEMENTS:

Average 90 minutes are spent weekly for extension work including answering telephones, meeting visitors, and writing letters for various questions from professionals as well as homeowners.

PUBLICATIONS:

Journal Articles

- Kawase, M. 1974. Role of ethylene in induction of flooding damage in sunflower. *Physiol. Plant.* 31:29-38.
- Schreiber, L. R. and M. Kawase. 1975. Rooting of cuttings from tops and stumps of American elm. *HortScience* 10:615.
- Kawase, M. 1976. Ethylene accumulation in flooded plants. *Physiol. Plant.* 36:236-241.
- Kawase, M. 1976. Centrifugation and rooting of cuttings. *Rivista di Ortoflorofrutticoltura* 69:73-91.
- Tognoni, F., M. Kawase, and A. Alpi. 1977. Seasonal changes in rootability and rooting substances of Picea glauca cuttings. *J. Amer. Soc. Hort. Sci.* 102:718-720.
- Kawase, M. 1978. Anaerobic elevation of ethylene concentration in waterlogged plants. *Amer. J. Bot.* 65:736-740.
- Kawase, M. 1979. Role of cellulase in aerenchyma development in sunflower. *Amer. J. Bot.* 66:183-190.
- Kawase, M. and R. E. Whitmoyer. Aerenchyma development in waterlogged plants. *Amer. J. Bot.* (in press).
- 15 others.

Technical Articles:

- Kawase, M. 1974. Effect of dry centrifugation on rooting of cuttings. *Hort-Science* 9(3):277.
- Kawase, M. 1974. Effect of gibberellin on yew growth: Preliminary Studies. *Research Summary* 79:35-36. Ohio Agr. Res. & Dev. Center.
- Kawase, M. 1974. Woody florals in Mid-Northern Korea, Southeastern Manchuria, and Southern Saghalin Adaptable to the North Central United States. Ohio Agr. Res. & Dev. Center Horticulture Series No. 407.
- Kawase, M. 1974. Role of ethylene in flooding damage in plants. *Proc. 19th Int. Hort. Congress* 1B:863.

-3-

PUBLICATIONS:

Technical Articles (cont.)

- Kawase, Makoto. 1975. Japanese yew (*Taxus cuspidata*). Horticulture Series No. 421. OARDC.
- Kawase, Makoto. 1977. Ornamental Plant Introduction Work at OARDC. Turf and Landscape Day-1977. 17-22, OARDC.
- Kawase, Makoto. 1978. Aerenchyma formation--An adaptation of plants for water-logging. Ohio Report Jan-Feb. 14-15, OARDC.
- Kawase, M. 1978. Aeration and waterlogging damages. HortScience 13:370.
- Kawase, M. 1978. Extraction and application of rooting substances obtained from *Salix fragilis*. HortScience 13:370.
- Kawase, M. 1978. Sexes in ornamental plants. OSU Landscape Facts. LF-OR 21-78.
- Velbinger, C. and M. Kawase. 1978. Producing bean sprouts in the home. OSU Landscape Facts LF-VG 23-78.
- Kawase, M. 1979. Woody flora in Hokkaido adaptable to the North Central United States. Research Circular 246, OARDC.
- Kawase, M. and R. E. Whitmoyer. 1979. Aerenchyma development in roots and stems caused by waterlogging or ethylene treatment. Plant Physiol. 63(5):133.
- Kawase, M. 1979. Cellulase activity in waterlogged herbaceous horticultural crops. HortScience 14(3):430.
- Matsui, H. and M. Kawase. 1979. Role of auxin in the root initiation of etiolated red kidney bean stems.
- 33 others.

Other Published Materials:

- Kawase, M. 1976. Method of potting trees and shrubs. U.S. Patent No. 3965617.
- Kawase, M. 1978. Tube culture method to containerize a field-grown plant. Canadian Patent No. 1023206.

MAJOR "OUT OF STATE" SPEAKING ENGAGEMENTS:

During the period from September to December 1974 as a visiting professor at Pisa University, I gave seminars at Pisa and Florence Universities.

UNIVERSITY, COLLEGE AND DEPARTMENT COMMITTEES AND ACTIVITIES:

Turf and Landscape Day Committee, Long Range Farm Committee, Farm Committee, Social Committee.

NON-UNIVERSITY PROFESSIONAL ACTIVITIES:

Ph.D. examiner for Burdwan University; Reviewing papers for Amer. Soc. for Hort. Sci., Plant Physiology and American Journal of Botany; Advised for independent study students and MS student of the College of Wooster; advised students from Wesleyan University and College of Wooster for their special interest in horticulture.

PAPERS PRESENTED AT PROFESSIONAL MEETINGS:

Kawase, M. 1974. Effect of dry centrifugation on rooting of cuttings. Hort-Science 9(3):277.

Kawase, M. 1974. Role of ethylene in flooding damage in plants. Proc 19th Int. Hort. Congress 1B:863.

Kawase, M. 1978. Aeration and waterlogging damages. HortScience 13:370.

Kawase, M. 1978. Extraction and application of rooting substances obtained from Salix fragilis. HortScience 13:370.

Kawase, M. and R. E. Whitmoyer. 1979. Aerenchyma development in roots and stems caused by waterlogging or ethylene treatment. Plant Physiol. 63(5):133.

Kawase, M. 1979. Cellulase activity in waterlogged herbaceous horticultural crops. HortScience 14(3):430.

Matsui, H. and M. Kawase. 1979. Role of auxin in the root initiation of etiolated red kidney bean stems.

17 others.

SCIENTIFIC AND PROFESSIONAL SOCIETIES:

American Society for Horticultural Science
American Society of Plant Physiologists
International Plant Propagators' Society
Ohio Nurserymen's Association
Scandinavian Society for Plant Physiology
American Association for the Advancement of Science
Botanical Society of America

HONORS AND AWARDS:

Phi Kappa Phi
Pi Alpha Xi
Sigma Xi
1962 Alex Laurie Award from American Society of Horticultural Science
1967 Alex Laurie Award from American Society of Horticultural Science
A US Patent in 1976
A Canadian Patent 1978
NATO Visiting Professorship in Italy in 1974

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HONORS AND AWARDS (cont.):

NSF Overseas Travel Grant to attend the 18th International Horticultural Congress in Israel in 1970;

Post-Dorctoral Fellowship (Plant Physiology) at Purdue University, 1960-1962

GRANT OR GIFT SUPPORT RECEIVED:

1978 - Horticultural Research Institute - Study on the method to containerize field-grown trees and shrubs.

COMMENTS:

I have been spending fair amount of time in helping colleagues by translating Japanese literature in English

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NAME: Dale W. KretchmanDATE OF BIRTH: September 7, 1931TITLE: ProfessorAGE: 48ASSIGNMENT: O.A.R.D.C. 75%O.S.U. 25%EDUCATION:

| <u>Degree</u> | <u>Year</u> | <u>Institution</u> | <u>Major</u> |
|---------------|-------------|---------------------------|----------------------------------|
| B.S. | 1953 | Michigan State College | Horticulture |
| M.S. | 1954 | Michigan State College | Horticulture |
| Ph.D. | 1958 | Michigan State University | Horticulture Plant Physiology |

POSITIONS HELD:

| | |
|--------------|--|
| 1967-Present | Professor, Department of Horticulture, OARDC & OSU |
| 1963-1967 | Associate Professor, Department of Horticulture, OARDC, OSU |
| 1958-1963 | Assistant Horticulturist, Citrus Experiment Station, Lake Alfred, Florida |
| 1956-1958 | Research Assistant, Department of Horticulture, Michigan State University, E. Lansing, Michigan |
| 1954-1956 | 2nd Lt. and 1st Lt. - U.S. Army |

COURSES TAUGHT (1-1-75 to 1-1-80)

Hort 652 - Advanced Vegetable Crops A-75(25)
 Hort 552 - Commercial Vegetable Production - Processing A-75(20)
 Hort 814 - Physiology of Horticultural Plants A-75(10)
 Hort 552 - Commercial Vegetable Production - Processing A-77(16)
 Hort 814 - Physiology of Horticultural Plants A-77(7)
 Hort 552 - Commercial Vegetable Production - Processing A-78(12)
 Hort 814 - Physiology of Horticultural Plants A-78(8)
 Hort 814 - Physiology of Horticultural Plants A-79(14)
 Hort 551 - Commercial Vegetable Production - Asst. 1/3 of course A-79(15)
 Also served as guest lecturer in other courses in Horticulture, Agricultural
 Economics and Agricultural Engineering

Graduate Study Involvements:

No. of Advisees (1-1-75 to 1-1-80)

| | |
|--------------------------------------|---------|
| M.S. 10 | Ph.D. 4 |
| Honor's Student Research Advisee - 1 | |

No. of Programs Completed (1-1-75 to 1-1-80)

| | |
|--------|---------|
| M.S. 6 | Ph.D. 3 |
|--------|---------|

Service on Other Graduate Committees (1-1-75 to 1-1-80)

| | |
|---------|---------|
| M.S. 11 | Ph.D. 5 |
|---------|---------|

RESEARCH ACTIVITIES:

H-470 Culture and Physiology of Cucumbers for Processing 35%

H-464 Culture and Physiology of Tomatoes for Processing 60%

EXTENSION EDUCATION ACTIVITIES:

Evaluation of sweet corn, muskmelon and cabbage cultivars and lines (5%)

Presentations of Area Processing Tomato Schools 1-1-75 to 1-1-80 (12)

Presentations at Area Processing Cucumber Schools 1-1-75 to 1-1-80 (8)

Presentations at Statewide Vegetable Meetings 1-1-75 to 1-1-80 (14)

Presentations at Area Fresh Market Vegetable Schools 1-1-75 to 1-1-80 (1)

Miscellaneous speaking engagements; e.g. Garden Clubs, Service Clubs, etc. (4)

PUBLICATIONS:

Journal Articles

Williamson, R.E., D.W. Kretchman, and J.S. Cunduff. 1976. Design and performance of a mechanical harvester for vegetable transplants. Trans. ASAE 19(6):1015-1018.

Kretchman, D.W., A.A. Taha and C.A. Jaworski. 1979. Daminozide and ethephon effect transplant quality, plant growth and development, and yield of processing tomatoes. Jr. Amer. Soc. Hort. Sci. (Submitted for Publ.).

Technical Articles

Kretchman, D.W. 1975. Plant population-cultivar-nitrogen relations to yield and returns from mechanical harvest of pickling cucumbers. OARDC Res. Sum. 81, p. 25-27.

Cummins, T.L. and D.W. Kretchman. 1975. Moisture stress relations to growth and development of the pickling cucumber. OARDC Res. Sum. 81, p. 23-24.

Kretchman, D.W. 1975. Pickling cucumber cultivar evaluation trials. OARDC Hort. Ser. No. 414, 5 p.

Kretchman, D.W. 1975. Cabbage cultivar evaluation trials. OARDC Hort. Ser. No. 420, 6 p.

Kretchman, D.W. and T.H. Short. 1975. An initial evaluation of "Speedling" transplants for processing tomatoes. OARDC Res. Sum. 81, p. 5-8.

Taha, A.A. and D.W. Kretchman. 1975. Plant regulator effects on plant quality, growth, development, and yield of processing tomatoes. OARDC Res. Sum. 81, p. 17-19.

Kretchman, D.W. 1975. Adjuvants and ethephon on processing tomatoes. OARDC Res. Sum. 81, p. 21.

George, W.L. and D.W. Kretchman. 1975. Muskmelon cultivar evaluation trials. OARDC Hort Ser. No. 428, 5 p.

Kretchman, D.W. 1976. Pickling cucumber cultivar evaluation trials. OARDC Hort. Ser. 430. 7p.

Technical Articles (cont.)

- Kretchman, D.W. and E.C. Wittmeyer. 1976. Consideration for using ethephon on tomato for processing. OARDC Hort. Ser. No. 431, 5 p.
- Kretchman, D.W. and W. L. George. 1976. Muskmelon cultivar evaluation trials. OARDC Hort. Ser. No. 428, 10 p.
- Kretchman, D.W. and T.H. Short. 1977. Additional studies with plug-mix seeding of processing tomatoes in Ohio. OARDC Hort. Ser. No. 443, p. 11-12.
- Kretchman, D.W. and T. H. Short. 1977. A further evaluation of transplants for processing tomatoes in Ohio. OARDC Hort. Ser. No. 443, p. 9-10.
- Kretchman, D.W. 1977. Ripening response of newer cultivars of processing tomatoes to ethephon. OARDC Hort. Ser. No. 443, p. 7-8.
- Kretchman, D.W. 1977. Plant vigor and effectiveness of ethephon for ripening of processing tomatoes. OARDC Hort. Ser. No. 443, p. 4-6.
- Kretchman, D.W. 1977. Studies on nitrogen fertilization of pickling cucumbers. OARDC Hort. Ser. No. 443, p. 1-3.
- Kretchman, D.W. and M.A. Jameson. 1977. Pickling cucumber cultivar evaluation trials. OARDC Hort. Ser. No. 440, 8 p.
- Short, T.H., J.E. Henry and D.W. Kretchman. 1977. How to make fall beds and achieve tomato stands on clay soils. OARDC Agr. Eng. Ser. No. 101, 4 p.
- Kretchman, D.W. and M.A. Jameson. 1978. Pickling cucumber cultivar evaluation trials. OARDC Hort. Ser. No. 542, 9 p.
- Kretchman, D.W., W.M. Brooks, M.A. Jameson, G.G. Myers, and C.C. Willer. 1978. Muskmelon cultivar evaluation trials. OARDC Hort. Ser. No. 457, 10 p.
- Kretchman, D.W. and M.A. Jameson. 1978. Cultural studies on tomatoes for processing. OARDC Hort. Ser. No. 455, 15 p.
- Short, T.H., J.E. Henry, and D.W. Kretchman. 1978. A fall-bed preparation system for machine harvested tomatoes in Ohio. Amer. Soc. Agric. Eng. Paper No. 78-1025, 4 p.
- Kretchman, D.W. and M.A. Jameson. 1979. Cultural studies on tomatoes for processing. OARDC Hort. Ser. No. 467, 10 p.
- Kretchman, D.W., M.A. Jameson and J. Johnson. 1979. Cultural studies on cucumbers for processing. OARDC Hort. Ser. No. 469, 4 p.
- Kretchman, D.W. and M.A. Jameson. 1979. Cabbage cultivar evaluation trials. OARDC Hort. Ser. No. 464, 4 p.
- Kretchman, D.W., W. M. Brooks, M.A. Jameson, G.G. Myers and C.C. Willer. 1979. Muskmelon cultivar evaluation trials. OARDC Hort. Ser. No. 468, 6 p.

Other Publications

Contributing author to OCES Bulletin 647, "Ohio Guidelines for Production of Machine-Harvested Tomatoes-1979", 34 p.

MAJOR "OUT OF STATE" SPEAKING ENGAGEMENTS:

Ontario Vegetable Growers Conventions - Feb. 10-11, 1975 & March 22-23, 1977
Ontario Processing Tomato School - March 15, 1978
Indiana Canning Raw Products Conference - Feb. 11-12, 1976
Tomato Transplant Workshop, Tifton, GA. - Jan. 14-15, 1976 & Jan. 10-11, 1978
H.J. Heinz Co. Technical Conference - Feb. 24, 1976.

OUT OF STATE CONFERENCES WITH SIGNIFICANT CONTRIBUTIONS:

Pickling Cucumber Improvement Committee of Pickle Packers International,
Aug. 20-21, 1975, Oct. 27-29, 1976, Aug. 28-30, 1978.
Tri-State Vegetables for Processing Conference, March 5-6, 1975, March 17-18,
1976, March 16-17, 1978, March 15-16, 1979.

COMMITTEE ACTIVITIES:

(Departmental)

Curriculum Committee 75-81 (Chairman 75-78)
Graduate Committee 78-81
OARDC Farm Committee 75-80
Promotion & Tenure Committees 76,77,79 (Chairman 76)

(College & OARDC)

Processing Tomato Task Force 75-80
Fresh Market Vegetable Task Force 75-78
Processing Cucumber Task Force 75-80
Water Resources Committee 75-77
Interregional Committee on Pesticides for Minor Crops (IR-4) 78-80
Conference Committee of the Research Faculty 75-78
New Vegetable Crops Research Branch 75-79

NON-UNIVERSITY PROFESSIONAL ACTIVITIES:

ASHS Publications Committee 75-77 (Chairman 76-77)
ASHS Board of Directors 76-77
ASHS 1979 Annual Meeting Local Arrangements Committee
(Co-Chairman Program Committee)
ASHS Vegetable Crops Working Group Steering Committee 77-80
(Chairman-Elect 79-80)
ASHS Review Editor 75-80

PAPERS PRESENTED AT PROFESSIONAL MEETINGS:

- Cummins, T.L. and D. W. Kretchman. 1975. Relation of internal water to growth and development of the pickling cucumber. (Abst.) HortScience 10(3):319.
- Taha, A.A. and D.W. Kretchman. 1975. Influence of ethephon and SADH on tomato transplant quality and subsequent growth, development and yield (Abst.) HortScience 10(3):332.
- Taha, A.A. and D.W. Kretchman. 1978. The influence of ethephon on photosynthesis, chlorophyll content and root development of tomato seedlings (Abst.) HortScience 13(3):354.
- Taha, A.A. and D.W. Kretchman. 1978. The influence of nitrogen nutrition on effectiveness of ethephon for flower abscission and fruit ripening of tomatoes for processing (Abst.) HortScience 13(3):354.
- Johnson, J.R. and D.W. Kretchman. 1979. Influence of harvest frequency and thoroughness on fruit growth, yield and returns of pickling cucumbers (Abst.) Hort Science 14(3):428.
- Carter, J., W.L. Bauerle and D.W. Kretchman. 1979. The influence of root temperature on photosynthesis, root respiration and root development of greenhouse tomatoes (Abst.) HortScience 14(3):473.

SCIENTIFIC & PROFESSIONAL SOCIETIES:

American Society for Horticultural Science
 Council for Agricultural Science & Technology
 Michigan State Horticultural Society (Life member)
 Florida State Horticultural Society
 Sigma Xi
 Phi Kappa Phi
 Growth Regulator Working Group

GIFT SUPPORT:

| <u>Year</u> | <u>Source</u> | <u>Purpose</u> | <u>Amount</u> |
|-------------|------------------|--------------------------|---------------|
| 1975 | AmChem | Fruit Ripening Studies | \$400.00 |
| | EM Lab | Fruit Setting Studies | 300.00 |
| 1976 | Merck | Fruit Setting Studies | 100.00 |
| 1977 | Diamond Shamrock | Plant Growth Studies | 500.00 |
| | EM Lab | Fruit Setting Studies | 500.00 |
| 1978 | Uniroyal | Plant Maturation Studies | 650.00 |
| 1979 | EM Lab | Fruit Setting Studies | 500.00 |

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NAME: R. Daniel LinebergerDATE OF BIRTH: Nov. 9, 1948TITLE: Assistant Professor Horticulture AGE: 30ASSIGNMENT: OARDC 40% OSU 60%EDUCATION:

| <u>Degree</u> | <u>Year</u> | <u>Institution</u> | <u>Major</u> |
|---------------|-------------|-----------------------|-------------------------|
| Ph.D. | 1978 | Cornell University | Floriculture |
| M.S. | 1974 | Cornell University | Floriculture |
| B.S. | 1971 | N.C. State University | Ornamental Horticulture |

POSITIONS HELD:

Assistant Professor Ohio State University 1977-present
 Graduate Research Assistant Cornell University 1971-1977

YEARS AT THE OHIO STATE UNIVERSITY: 2RESIDENT INSTRUCTION:

Courses Taught Past Five Years

Hort 231 Landscape Plants I A-77 (170)
 Hort 232 Landscape Maintenance W-78 (130)
 Hort 233 Landscape Plants II S-78 (110)
 Hort 432 Woody Deciduous Plants A-78 (120)
 Hort 433 Woody Evergreen Plants W-79 (100)
 Hort 434 Use of Woody Plants in the Landscape S-79 (100)
 Hort 415 Plant Propagation A-79 (65)
 HORT 814 Physiology of Horticultural Plants A-77(8), A-78(10)

Undergraduate Advisees - Autumn 1979 - 85

Student Organizational Involvement

Advisor to Landscape and Floriculture Forum
 (1977-present)

Advisor to Association of Collegiate Branches of
 American Society for Horticultural Science

Graduate Study Involvement

Number of Advisees Past Five Years

M.S. 5 Ph.D. 3

Number of Program Completions Past Five Years

M.S. 1 Ph.D. 0

RESEARCH ACTIVITIES:

Hatch 653-Tissue Culture Propagation of Selected Woody Ornamental Species

A program of research directed toward the propagation of woody plant species by microculture techniques, including Quercus palustris 'Sovereign', Malus sp. 'White Angel', Salix matsudana 'Tortuosa' and others.

Research is also being conducted in the area of freeze preservation of suspension and callus cultures.

OCES INVOLVEMENTS:

Extension Publications (see below)
Participation in Ohio Nursery Shortcourse
Participation in State FFA and NJHA Horticultural Activities

PUBLICATIONS:

Publications in Referred Journals

Lineberger, R. D. and P. L. Steponkus. 1976. Identification and Localization of Vascular Occlusions in Cut Roses. J. Amer. Soc. Hort. Sci. 101: 246-250.

Steponkus, P. L., M. P. Garber, S. P. Myers, and R. D. Lineberger. 1977. Effects of Cold Acclimation and Freezing on Structure and Function of Chloroplast Thylakoids. Cryobiology 14: 303-321.

Lineberger, R. D. and P. L. Steponkus. Cryoprotection by glucose, sucrose and raffinose to chloroplast thylakoids. Accepted July 24, 1979 for publication in Plant Physiology.

Lineberger, R. D. and P. L. Steponkus. Effects of freezing on the release and inactivation of chloroplast coupling factor 1. Submitted September 15, 1979 for publication in Cryobiology.

Lineberger, R. D. and T. A. Fretz. Pollen morphology of the genus Taxus (in preparation).

Kelly, J. W. and R. D. Lineberger. Effects of thermal neutron radiation on Saintpaulia. (in preparation).

Extension Publications

Lineberger, R. D. and R. H. Munson. 1978. Dwarf conifers in the Landscape. Landscape Facts Series #LF-OR-1978. Department of Horticulture. The Ohio State University.

Lineberger, R. D. and R. L. Powell. 1979. Ornamental grasses in the landscape. Landscape Facts Series #LF-OR-2479. Department of Horticulture. The Ohio State University.

Lineberger, R. D. 1979. Foliage Plants in the exterior landscape. Landscape Facts Series #LF-FB-3279. Department of Horticulture. The Ohio State University.

Lineberger, R. D. and K. W. Reisch. 1979. Evergreens in the landscape. Ohio Cooperative Extension Service Bulletin #L297.

Lineberger, R. D., K. E. Roberts, and W. G. Miller. 1979. Specimen trees on campus. Ohio Cooperative Extension Service Bulletin #679-5M.

UNIVERSITY, COLLEGE AND DEPARTMENT COMMITTEES AND ACTIVITIES:

Undergraduate committee, Social Committee, Growth Chamber Utilization Committee Program Committee for the ASHS/ASPP meetings, Petitions Committee, Living and Learning Program Committee, Committee to Procure Funding for the College Electron Microscope Facility.

PAPERS PRESENTED AT PROFESSIONAL MEETINGS:

Lineberger, R. Daniel. 1979. Soil Persistence of Potassium Azide as a Broad Spectrum Fumigant. HortScience 5: 303. (abst. No. 9)

Lineberger, R. D. and P. L. Steponkus. 1973. Extraction and Identification of Vascular Occlusions from 'Red American Beauty' Roses. HortScience 8: 280, (abst. No. 250).

Lineberger, R. D. and P. L. Steponkus. 1974. Recording Vase Life of Cut Flowers by Time Lapse Photography. HortScience 9: 297, (abst. No. 226).

Lineberger, R. D. and P. L. Steponkus. 1975. Influence of Sugars on Freezing Injury in Chloroplast Thylakoids. Cryobiology 12: 565.

Lineberger, R. D. and P. L. Steponkus. 1976. Ultrastructural Observations on Deep-Etched Thylakoids Frozen in the Presence or Absence of Cryoprotectants. Cryobiology 13: 669.

Lineberger, R. D. and P. L. Steponkus. 1977. Differential Effects of Sugars on Cryoprotectants of Light-Induced Proton Uptake in Thylakoids. Plant Physiology 59: 5 (abst. No. 20).

Lineberger, R. D. and T. A. Fretz. 1979. Pollen morphology of the genus Taxus. HortScience 14: 445, (abst. No. 376).

Kelly, J. W. and R. D. Lineberger. 1979. Thermal neutron induced changes in Saintpaulia ionantha peroxidase isozymes. HortScience 14: 477, (abst. No. 586).

SCIENTIFIC AND PROFESSIONAL SOCIETIES

American Society for Horticultural Science
American Society of Plant Physiologists

GRANT OR GIFT SUPPORT RECEIVED:

University Small Research Grant for Project Concerning Freeze Preservation of Suspension Cultures. Amount \$3188.

Grant from College of Agriculture Research Committee to Partially Fund Tissue Culture Course. Amount: \$1960.

-4-

COMMENTS:

The greatest obstacle to be overcome in beginning a new research program involves the commitment of resources to the task. Since my arrival in the fall of 1977, we have built a tissue culture facility from "scratch". With the aid of graduate students willing to work, an administration supportive of the concept, and some outside funding, the facility is ready to be productive. Undergraduate teaching and advising has commanded a high proportion of my time. Hopefully, this role will continue to require proportionately less time so that more can be devoted to graduate teaching, advising, and research. Research objectives for the coming years include increasing outside funding, increasing technical support, and a continued trend toward both fundamental as well as applied research.

NAME: Andrew C. Peng

DATE OF BIRTH: Feb. 14, 1924

TITLE: Professor

AGE: 55

ASSIGNMENT: O.A.R.D.C. 50 O.S.U. 50

EDUCATION:

| Degree | Year | Institution | Major |
|------------------|------|--|-----------------|
| Associate Degree | 1948 | University of Nanking, Nanking, China | Horticulture |
| B.S. (Hons.) | 1961 | Washington State University, Pullman, Washington | Food Technology |
| M.S. | 1962 | Michigan State University, East Lansing, Michigan | Food Science |
| Ph.D. | 1965 | Michigan State University, East Lansing, Michigan | Food Science |

POSITION HELD:

Professor, Department of Horticulture, OSU & OARDC, Jul. 1978-

Associate Professor, Department of Horticulture, OSU & OARDC,
Jul. 1972 - June 1978

Assistant Professor, Department of Horticulture, OARDC, Wooster,
Ohio, Oct. 1970 - June 1972

Assistant Professor, Department of Horticulture, OSU, Columbus,
Ohio, Jan. 1968 - June 1972

Extension Specialist in Food Processing, Ohio Cooperative Extension
Service, OSU, Columbus, Ohio, Jan. 1968 - Sept. 1970

Project Leader, Vegetable Protein Research, Swift & Co. Research &
Development Center, Chicago, Illinois, Sept. 1965 - Dec. 1967

Administrative Assistant to the Director, U. S. Information Service,
Taiwan, Republic of China, Feb. 1956 - Sept. 1958

YEARS AT THE OHIO STATE UNIVERSITY: 12

RESIDENT INSTRUCTION: Courses Taught Past Five Years (Jan. 1, 1975 -
Dec. 31, 1979)

Hort 593 - Individual Studies, Au-75(1)

Hort 653 - Processing Technology of Cereal Grains & Related Foods,
Sp-75(17), Sp-76(14), Sp-78(7), W-79(6)

Hort 743 - Enzymes in Horticultural Food Processing, Au-75(3), Au-76(3)

Hort 747 - Technology of Fats & Oils, Sp-75(6) , Sp-76(14) , Sp-77(14),
Sp-78(12), W-79(1)

Hort 748 - Technology of Plant Proteins, W-75(6), W-76(8), W-77(14),
Au-79(12)

Hort 993 - Individual Studies, Au-76(1), W-77(1)

Hort 999 - Research, W-75(1), Sp-75(1), Su-75(1), Au-75(1), W-76(2),
Sp-76(2), Au-76(1), W-77(1), Au-77(2), W-78(1), Sp-78(2),
Su-78(1), Au-78(1), W-79(1)

Undergraduate Advisees - Autumn 1979 - 1

Student Organizational Involvements - None

Graduate Study Involvements

Number of Advisees Past Five Years (Jan. 1, 1975 - Dec. 31, 1979)

M.S. - 5

Ph.D. - 2

Number of Program Completions Past Five Years

M.S. - 3

Ph.D. - 2

RESEARCH ACTIVITIES

Hatch 631 - Effect of cultivars and processing methods on lipid, sterol,
and protein contents of vegetables.

This project is to investigate the total lipid content and classes,
sterols and fatty acid composition of 3-5 cultivars of cabbage and tomato;
to study the varietal effect of the protein content of soybeans and their
milk; and to determine the effect of processing on the aforementioned com-
ponents and their composition in the processed products.

PUBLICATIONS

Journal Articles (Referred)

1. Iljas, N., W. A. Gould & A. C. Peng. New Soybean Food Made from Tempeh. Microbiology Abstracts, Section C, Vol. 4, 1975 (London).
2. Peng, A. C. An Evaluation of Potential Mycotoxin-Producing Molds in Corn Meal. Food Industries 7(9):24-25, Sept. 1975. Translated into Chinese from Cereal Foods World, May 1975.
3. Peng, A. C. Effect of Fermentation, Processing and Storage on Lipid Composition of Sauerkraut. J. Sci. Food Agric. 26(9):1325-1332, Sept. 1975.

4. Peng, A. C. Lipid Composition of Cucumber. OARDC Research Circular 213, p. 29, Jan. 1976.
5. Peng, A. C. & J. R. Geisman. Fatty Acids in Fresh and Recycled Brines. OARDC Circular 213, pp. 30-31, Jan. 1976.
6. Peng, A. C. Effect of Lipid and Fatty Acid Composition on Keeping Quality. OSU-OARDC Horticulture Series No. 437, pp. 59-60, Feb. 1976.
7. Higgins, P. A. & A. C. Peng. Grape Lipids. OSU-OARDC Horticulture Series No. 437, pp. 61-62, Feb. 1976.
8. Higgins, P. A. & A. C. Peng. Lipid Composition of 'Concord' Grapes. Am. J. Enol. Viticul. 27(1):32-35, Apr. 1976.
9. Peng, A. C. & J. R. Geisman. Lipid and Fatty Acid Composition of Cucumbers and Their Changes During Storage of Fresh-Pack Pickles. J. Food Sci. 41(4):859-862, July-Aug. 1976.
10. Bauman, J. A., J. F. Gallander & A. C. Peng. Effect of Maturation on the Lipid Content of Concord Grapes. Am. J. Enol. Viticul. 28(4):241-244, 1977.
11. Desai, G. N. & A. C. Peng. Investigation of Protein Content of Ohio Grown Soybeans. OARDC Research Circular 240, pp. 37-39, Aug. 1978.
12. Ali, M. H. & A. C. Peng. Recovery and Functionality of Soybean Leaf Proteins. OARDC Research Circular 240, pp. 39-43, Aug. 1978.
13. Chen, L. M. & A. C. Peng. Kinetic Studies of Polyphenol Oxidase from HiDri Cabbages. OARDC Research Circular 240, pp. 48-52, Aug. 1978.
14. Peng, Andrew C. Soybean-Cheese Whey Food Product. US Patent 4,105,803; Aug. 8, 1978.
15. Peng, A. C. Lipid Changes Occurring in Cabbage During Storage. OARDC Research Circular 250, pp. 45-47, July 1979.
16. Yao, M. L. & A. C. Peng. The Effect of Coagulants on Protein Content and Amino Acid Composition of Soybean-Cheese Whey Curd. OARDC Research Circular 250, pp. 48-51, July 1979.
17. Gallander, James F. & Andrew C. Peng. Lipid and Fatty Acid Composition of Different Grape Types. Am. J. Enol. Viticul. 31(1). In Press.

Technical Articles

1. Peng, A. C. A Guide for Preparing Scientific Publication. Departmental Publication, Sept. 1975.
2. Peng, A. C. Plant Protein Materials Incorporated in Foods. Ohio Report 60(6):94-95, Nov.-Dec. 1975.
3. Gallander, J. F. & A. C. Peng. Winemaking Course. The Home Winemaker 3(1):1,2,5,8,9,10, Feb-Mar. 1976.
4. Peng, A. C. Chinese Soybean Foods Tailored for U. S. Markets. Ohio Report 62(4):62-63, July-Aug. 1977.
5. Desai, G. N. & A. C. Peng. Variety Affects Soymilk Protein Content. Ohio Report 63(2):30-31, Mar.-Apr. 1978.
6. Ali, M. H. & A. C. Peng. Leaves May Be Future Source of Protein. Ohio Report 63(5):77-78, Sept.-Oct. 1978.
7. Yao, M. L. & A. C. Peng. New Chemical Coagulant for Making Soybean Curd. Ohio Report 64(1):11, Jan.-Feb. 1979.
8. Chen, L. M. & A. C. Peng. Technique May Extend Shelf Life of Cabbage Slaw. Ohio Report 64(4):60, July-Aug. 1979.
9. Peng, A. C. & L. M. Chen. Nutritional Value of the Cabbage. Ohio Report 64(5):71, Sept.-Oct. 1979.

Other Published Material

1. Peng, Andrew. Tofu Could Lead to New Market for Your Soybeans. Farm Journal, Oct. 1977.

UNIVERSITY, COLLEGE AND DEPARTMENT COMMITTEES AND ACTIVITIES:

College Library Committee, 1975-1978

College Academic Affairs Committee, 1978-1981

Department Graduate Committee, 1975-1978

Department Curriculum Committee, 1978-1980

Department Minority Affairs Committee, Chairman

Department Safety Committee

Buckeye Chapter of Phi Tau Sigma Honor Society:

Secretary-Treasurer, 1970-1974

Vice President, 1976-1977

President, 1977-1978

Gamma Sigma Delta, Department Representative

United Way, Department Campaigner, 1975-1978

NON-UNIVERSITY PROFESSIONAL ACTIVITIES:

Research Consultant, National Science Council, The Republic of China.

Technical Consultant, Chungwa Agricultural & Engineering Consultants Ltd., Taiwan, The Republic of China.

Lecture of soy milk and curd to the Japanese Soybean Protein Industry Team sponsored by the Am. Soybean Association, November 17, 1975.

Lecture of the fundamentals of fats and oils to Potato Chip and Snack Food Quality Assurance School, July 28, 1976.

Seminar on thermal processing of canned foods by convection to Ross Laboratories Microbiology Section, April 4, 1978.

Seminar on thermal processing of canned foods to Ross Laboratories, December 13 & 14, 1978.

Book reviewer for publication in Food Technology, 1979. (Shurtleff, W. & Aoyagi, A. Tofu & Soymilk Production. New-Age Foods Study Center, Lafayette, CA).

HONORS AND AWARDS:

Members of Alpha Zeta, Phi Kappa Phi, Sigma Xi, Phi Tau Sigma, and Gamma Sigma Delta

Listing in: American Men and Women in Science (USA)
Who's Who in America (Midwest) (USA)
International Scholars Directory (France)
Dictionary of International Biography (England)
Who's Who of Modern Chinese Scholars (China)
Overseas Chinese Specialists (China)

COMMENTS:

I was invited to present "Tomato Processing in the United States" to the "National Reconstruction Symposium" sponsored by the Chinese Government in Taiwan in the period of July 28-August 17, 1974, and to preside a session on "Problems and Improvements of the Food Processing Industry in Taiwan". The presentation earned me an honorary appointment of Research Consultant to the Chinese National Science Council (equivalent to US National Science Foundation), and of Technical Consultant to Chungwa Agricultural & Engineering Consultant Ltd., from 1974 to date.

I was also invited to present a paper of "Tempe-Kedele: an Indonesian Fermented Soybean Food" to the UNEP/UNESCO/ICRO Symposium-Workshop on Indigenous Fermented Foods, November 21-26, 1977 in Bangkok, Thailand. Paper was presented by Dr. N. Iljas, Dean, College of Agriculture, Sriwijaja University, Palembang, Indonesia, a former student of this department, because I was unable to make the trip.

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NAME: John Carl Peterson DATE OF BIRTH: October 9, 1951

TITLE: Assistant Professor and Extension Floriculturist,
Commercial Floriculture AGE: 28

ASSIGNMENT: O.A.R.D.C. 15% O.S.U. _____ O.C.E.S. 85%

EDUCATION:

| <u>DEGREE</u> | <u>YEAR</u> | <u>INSTITUTION</u> | <u>MAJOR</u> |
|---------------|-------------|----------------------------|------------------------------|
| B.S. | 1974 | University of Rhode Island | Plant Science (Floriculture) |
| Ph.D. | 1978 | Rutgers University | Horticulture (Floriculture) |

POSITIONS HELD:

Assistant Professor and Extension Floriculturist, The Ohio State University,
Department of Horticulture - August 1978 to present

Graduate Research Assistant and Instructor, Rutgers University, Department of
Horticulture and Forestry - June 1974 to July 1978.

Years at The Ohio State University - 1½

RESIDENT INSTRUCTION:

Courses taught past five years:

Fall 1977 (Rutgers University) Horticulture 323: Applied Physiology of Horticultural
Crops. 3 credit

Spring 1978 (Rutgers University) Horticulture 323: Greenhouse Environment Control
and Crop Production. 3 credit

Guest Lecturer - Horticulture 521 Greenhouse Environment Control - Twice annually
(Ohio State) Horticulture 814 Physiology of Horticultural Plants - Twice annually

GRADUATE STUDENT INVOLVEMENT:

Graduate Faculty Status - Category II

Number of Advisees: 2 Masters Students

Denise K. Baun, started July 1979

Audrey Wanstreet, started September 1979

RESEARCH ACTIVITIES:

Completed Project - Evaluation of Root-Kube as a product for propagating poin-
settia and geranium cuttings.

Current Projects -

Hatch Project No. 503

Submitted: October 13, 1978

Title: Effects of ecological factors, growth regulators and cultural techniques
on selected floral crops.

Personnel: Harry K. Tayama and John C. Peterson

An examination of numerous factors including light, temperature, soil, irrigation,
nutrition, and growth regulators so as to identify ways in which production
techniques used in the culture of floral crops can be improved.

Pending Proposals:Hatch Project

Title: Evaluation of chemical and physical properties of growing media used for the production of floral crops.

Personnel: John C. Peterson

An examination of the chemical and physical properties of different growing media to identify the ideal characteristics necessary for the production of quality flowering and foliage plants.

North Central Region Pesticide Impact Assessment Program (NCRPIAP)

Project Title: An evaluation of the impact of applications of various pesticides and pesticide components on the growth and development of select greenhouse floral crops.

Objective: The impact of applications of certain pesticides and pesticide components upon crop yield and quality as well as photosynthetic activity will be monitored. Information obtained will be used to reevaluate presently recommended pesticide use techniques for the production of greenhouse floral crops.

O.C.E.S. INVOLVEMENT:

Extension Specialist for Commercial Floriculture for the State of Ohio.

I assumed the responsibilities of Extension Floriculturist on August 1, 1978. Since this date my efforts have been directed towards developing an extension program based upon five distinct areas of involvement; 1. State-wide and area industry meetings, 2. Publications and presentations for the floriculture industry, 3. Personal (one-on-one) contact and assistance, 4. University run industry services, and 5. Research to solve industry problems.

Progress which I have been able to make in each of these five areas are as follows:

1. State-Wide and Area Industry Meetings.

Ohio Florist Short Course - This program is coordinated by the floriculture faculty as a group. I share equally in the responsibilities for the successful organization of this event which attracts industry people from all parts of Ohio and various other states and countries.

Area Meetings - I have coordinated four all day schools/workshops in Cleveland, Columbus, Cincinnati and Toledo in the past year for floral crop producers. Additional programs are presently being planned for commercial growers as well as retail florists. In the past year and a half I have also presented thirteen presentations at evening meetings of the ten regional grower groups around the state.

2. Publications and Presentations for the Floriculture Industry.

Commercial Floriculture Notes for Growers, and Commercial Floriculture Notes for Retailers.

In the spring of 1979 I developed two new extension publications for the floriculture industry in Ohio. These two publications serve as a link between myself and the two largest segments of the floriculture industry, retailers and grower. These two bi-monthly publications, distributed in alternate months, permit me to keep in touch with the industry state-wide and inform them of any important developments or problems which they should be aware of. I utilize this publication as an educational tool as well as a news circulator. In addition, there are two fast distribution publications, Ohio Flower Growers Hotline and Ohio Retail Florists Hotline which are used to get out information of extreme importance, quickly. These are distributed on an as needed basis.

I have developed numerous slide presentations which I use as educational tools to provide industry segments with current information. This information enables them to stay abreast of new technology and improve their businesses.

3. Personal One-On-One Contact.

When growers encounter problem situation I work with them individually over the phone or by visiting them to alleviate the problem. On trips to assist growers with problems I make stops in the surrounding vicinity to visit other growers and advise them of potential problem situations and ways in which they can be corrected.

4. University Run Industry Services.

Soil testing has been an area in which problems have apparently existed for many years in Ohio. Recent changes in growing media used for production, new techniques for analyzing growing media and the lack of coordination and communication between the soil testing facilities and the extension floriculturist have made for a bad situation.

Recently, I have been able to identify and coordinate the implementation of a new floral crop growing media testing service for the state of Ohio. Current techniques for analyzing new and different growing media have been adopted by the Research and Extension Analytical Laboratory located at the Ohio Agricultural and Research Development Center in Wooster, Ohio. A computerized communications network has been set up to link information obtained at the lab in Wooster to myself in Columbus. I have developed a program so that test results can be analyzed and automatically be provided. A sheet showing analysis results and recommendations is mailed to them as soon as testing is complete (24-48 hours after samples are received). The computer link I have with the lab in Wooster enables me to review results and recommendations and permits me to quickly assist growers in problem situations.

5. Research To Solve Industry Problems.

I conduct small scale projects to understand and solve practical problems which may be prevalent in the floriculture industry in Ohio. Examples being; the adjustment of soil pH with various calcium sources having differing physical properties and the setting of fruit on Christmas cherry plants using auxins under circumstances when pollination is a problem.

Publications:

Journal Articles (Refereed) -

Peterson, John C., John N. Sacalis, and Dominic J. Durkin. Promotion of leaf abscission in intact Ficus benjamina L. by exposure to water stress. Submitted for publication to American Society of Horticultural Science Journal, September 1979.

Peterson, John C., John N. Sacalis and Dominic J. Durkin. Alterations in abscisic acid content of Ficus benjamina L. leaves resulting from exposure to water stress and its relationship to leaf abscission. Submitted for publication to American Society of Horticultural Science Journal, October 1979.

Peterson, John C., John N. Sacalis and Dominic J. Durkin. Effects of light intensity upon leaf anatomy of Ficus benjamina L. Submitted for publication to HortScience (American Society of Horticultural Science Publication) November 1979.

Fretz, Thomas A., John C. Peterson and Jeffrey J. Koncal. Evaluation of post transplant herbicides for phytotoxicity and weed control in annual bedding plants. Ornamental Plants---1979 A Summary Of Research, Research Circular 246, Ohio Agricultural Research and Development Center, January 1979.

Published Abstracts -

Peterson, John, John Sacalis and Dominic Durkin. 1976. Leaf anatomy of sun grown, shade grown, and acclimatized Ficus benjamina L. Abstract; HortScience, Vol. 11(3):304.

Peterson, John, John Sacalis, Dominic Durkin and Chee-Kok Chin. 1977. The induction of leaf abscission by water stress in Ficus benjamina L. Abstract; HortScience, Vol. 12(4):395.

Peterson, John C., John N. Sacalis and Dominic J. Durkin. 1979. Alterations in abscisic acid content of Ficus benjamina L. leaves following exposure to water deficit. HortScience 14(3):473.

Technical Publications -

Peterson, John. 1975. Toxic fluoride levels in growing media. New Jersey Florists' Notes, June 1975. Part II: Reprinted Ohio Florists' Assoc. Bull. No. 551.

Peterson, John. 1977. Rutgers dew fresh package: A study in packaging various species of foliage plants. New Jersey Florists' Notes, August, 1977.

Peterson, John. 1978. Extension Slants - Beware of Residual Herbicides. Ohio Florists' Assoc. Bull. No. 588. Reprinted Florists' Review 163 (4223) 97, 127-128.

Tayama, Harry K., John C. Peterson, Richard K. Lindquist and C. C. Powell. 1978. Essentials of Pot Lily Culture, Easter, April 15, 1979. Ohio Florists' Assoc. Bull. No. 558.

Brooks, William M., Harry K. Tayama, Richard K. Lindquist, C. C. Powell, John Peterson, James D. Farley and Jerry L. Robertson. Tips on Growing Ornamental and Vegetable Bedding Plants. Bulletin MM-265, Cooperative Extension Service, The Ohio State University.

Peterson, John C., 1979. Basic light, water, air, soil, etc. Florists' Review Vol. 163, No. 4235. February 1, 1979.

Sacalis, J. N., J. Peterson and D. Durkin. 1979. The role of abscisic acid in causing leaf abscission in ornamental foliage plants. Submitted for publication to Acta Horticulturae, May 1979.

Tayama, Harry K., John C. Peterson, Richard K. Lindquist and C. C. Powell. 1979. The most common mistakes in poinsettia production. Ohio Florists' Association Bulletin No. 598, August 1979. Reprinted Florists' Review Vol. 165, No. 4271. October 11, 1979.

Tayama, Harry K., John C. Peterson, Richard K. Lindquist, C. C. Powell and G. L. Staby. 1979. Essential of Pot Lily Culture, Easter, April 6, 1980. Ohio Florists' Association Bulletin, No. 600, October 1979.

Peterson, John C. 1979. Greenhouse Conversion Chart. Ohio Florists' Association Bulletin, No. 602, December 1979.

Tayama, Harry K. and John C. Peterson. 1979. Poinsettia Care In The Home. Cooperative Extension Service Publication L-136, Revised. The Ohio State University.

Other Published Materials -

Peterson, John C. 1978. Use of "Rootcubes" for rooting poinsettia cuttings and other crops. Ohio State Flower Growers Hotline. The Ohio State University Number 5, September 1978.

Peterson, John C. 1979. Be a plant specialist. Commercial Floriculture Notes for Retailers, The Ohio State University, Vol. I, No. 3. July-August 1979.

Baun, Denise K., and John C. Peterson. 1979. Ideas on handling weddings. Commercial Floriculture Notes for Retailers. The Ohio State University. Vol. I, No. 4. September-October 1979.

Editorial Assignments -

Commercial Floriculture Notes for Grower. The Ohio State University Bi-Monthly Extension Publication. John C. Peterson, Editor.

Commercial Floriculture Notes For Retailers. The Ohio State University Bi-Monthly Extension Publication. John C. Peterson, Editor.

MAJOR "OUT OF STATE" SPEAKING ENGAGEMENTS:

Michigan Bedding Plant Meeting
Monroe, Michigan, December 5, 1978
"Improving Cultural Practices"

California Flower and Plant Producers Association
San Francisco, California, March 17, 1979
"Outlook for Prefinishing/Final-Finishing of Pot Plants"

Michigan State Flower Growers Annual Meeting
East Lansing, Michigan, October 31, 1979
"Foliage As a Livelihood-For the Northern Grower"

New Jersey State Flower Growers Association Annual Day in College
New Brunswick, New Jersey, November 15, 1979
"Production Problems for the 80's"

Telaflora National Convention, 1979
Hollywood, Florida, July 9, 1979
"Thoughts For The 80's"

UNIVERSITY, COLLEGE AND DEPARTMENT COMMITTEES AND ACTIVITIES:College -

Pesticide Assessment Committee
Research-Extension Analytical Laboratory Committee

Department -

Extension Committee
Social Committee

ASHS Meeting, 1979

Program Committee, Extension Division

Local Arrangements Committee
Floriculture Commodity Tour Coordinator
Wine and Cheese Party Coordinator

NON-UNIVERSITY PROFESSIONAL ACTIVITIES:

Member Floriculture Working Group
American Society of Horticultural Science

Consultant - Smithers Oasis Company

PAPERS PRESENTED AT PROFESSIONAL MEETINGS:

Peterson, John, John Sacalis and Dominic Durkin. Leaf anatomy of sun grown, shade grown, and acclimatized Ficus benjamina L. Abstract; HortScience, Vol. 11 (3):304. American Society of Horticultural Science National Meeting. 1976., L.S.U.

Peterson, John, John Sacalis, Dominic Durkin and Chee-Kok Chin. The induction of leaf abscission by water stress in Ficus benjamina L. American Society of Horticultural Science National Meeting. 1977, Salt Lake City, Utah.

Peterson, John C., John N. Sacalis, and Dominic J. Durkin. Alterations in abscisic acid content of Ficus benjamina L. leaves following exposure to water deficits. American Society of Horticultural Science National Meeting. 1979. O.S.U.

Sacalis, J. N., J. Peterson and D. Durkin. The role of abscisic acid in causing leaf abscission in ornamental foliage plants. International Society for Horticultural Science, Skierniewice, Poland, May 1979.

SCIENTIFIC AND PROFESSIONAL SOCIETIES:

Pi Alpha Xi
Alpha Zeta
American Society of Horticultural Science
Society of American Florists
Bedding Plants International
Ohio Florists' Association

HONORS AND AWARDS:

W. Atlee Burpee Scholarship
Honors Program Award - University of Rhode Island

GRANT OR GIFT SUPPORT RECEIVED:

| <u>Year</u> | <u>Source</u> | <u>Purpose</u> | <u>Amount</u> |
|-------------|----------------------------|------------------------|---------------|
| 1979 | Smithers Oasis Co. | Evaluation Root-Kube | \$ 500.00 |
| 1979 | Ohio Florists' Association | Pesticide Impact Study | \$2000.00 |

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NAME: James M. Pisarczyk

DATE OF BIRTH: March 15, 1952

TITLE: Assistant Professor

AGE: 27

ASSIGNMENT: O.A.R.D.C. 55% O.S.U. _____ O.C.E.S. 45%

EDUCATION:

| <u>Degree</u> | <u>Year</u> | <u>Institution</u> | <u>Major</u> |
|---------------|-------------|------------------------------|--------------|
| B.S. | 1974 | Loyola University of Chicago | Biology |
| M.S. | 1975 | University of Illinois | Horticulture |
| Ph.D. | 1978 | University of Illinois | Horticulture |

POSITIONS HELD:

Assistant Professor of Horticulture - OARDC - June, 1978 to present
 Graduate Teaching Assistant - University of Illinois - August 1977-June 1978
 Graduate Research Assistant - University of Illinois - August 1975-June 1978

YEARS AT THE OHIO STATE UNIVERSITY: 1

RESEARCH ACTIVITIES:

Hatch 662 - Culture and Physiology of Potatoes (60%). Research under this project includes: 1) variety evaluation, 2) fertilizer and spacing studies on russet potatoes, 3) the effects of growth regulators on chipping quality of potatoes, and 4) study of physiology of potato leading to high yield and good quality potato crop.

State 444 - Evaluation of Promising Cultivars and Selections of Certain Vegetable Crops for Fresh Market (5%). I coordinated the celery and pepper variety trials and cooperated in the sweet corn variety trials.

- Culture and Physiology of Fresh Market Vegetables (35%). Research under this project includes: 1) mulch studies on peppers, 2) celery transplant production, and 3) precision seeding of fresh market vegetables.

O.C.E.S. INVOLVEMENTS:

1. Assist in planning and participating in annual meetings, twi-light meetings, schools, and grower breakfasts with vegetable and potato growers in state.
2. Coordinate potato, celery, and pepper variety trials and publish results each year.
3. Cooperate in publication of several grower-oriented O.C.E.S. publications.
4. Serve on research committees that meet with potato and fresh market vegetable growers.

PUBLICATIONS:

Journal Articles (Referred)

- Pisarczyk, James M., Walter E. Splittstoesser, and Joseph S. Vandemark. 1976. Ethephon aids harvest of red kidney beans. HortScience 11(2):153.
- Pisarczyk, James M. and Walter E. Splittstoesser. 1978. The influence of a substituted oxathiin on the sugar concentration of carrot and beet roots. HortScience 13(5):583.
- Pisarczyk, James M. and Walter E. Splittstoesser. 1979. Response of tomato to pre-transplanting applications of chlormequat, daminozide, and ethephon. HortScience 14(3):263-264.
- Pisarczyk, James M. and Walter E. Splittstoesser. 1979. Controlling tomato transplant height with chlormequat, daminozide and ethephon. J. of Amer. Soc. for Hort. Sci. 104(3):342-344.

Other Published Materials

- Pisarczyk, James M., Walter E. Splittstoesser and Joseph S. Vandemark. 1978. A study of a new growth regulator on the sugar content of carrot and beet roots. Proc. 1978 IL Veg. Grow. Sch. Dept. of Hort. Ser. 12.
- Pisarczyk, James M., Walter E. Splittstoesser, and Joseph S. Vandemark. 1978. A study of growth regulators on field-grown snap beans in relation to yield. Proc. 1978 IL Veg. Grow. Sch. Dept. of Hort. Ser. 12.
- Pisarczyk, James M. and Walter E. Splittstoesser. The effect of the growth retardants, SADH and UNI-P293, on transpiration, water potential, and yield of field-grown snap beans. Proc. Pl. Grow. Reg. Work. Group. 1977.
- Pisarczyk, J.M. and W.E. Splittstoesser. The use of ethephon, SADH and CCC to control the height of tomato plants at transplanting. Proc. 1979 IL Veg. Grow. Sch. Dept. Hort. Ser. 12.
- Pisarczyk, J.M., R.C. Rowe, E.C. Wittmeyer, D.E. Simonet, F.I. Lower and W.A. Gould. 1979. Ohio potato cultivar trials, 1978. OARDC Hort. Dept. Ser. 465.
- Rowe, R.C., J.M. Pisarczyk, D.E. Simonet, and E.C. Wittmeyer. 1979. 1979 Ohio potato production guidelines. Coop. Ext. Ser. Publ. L-285.
- Gould, W.A., N.S. Confar, W.E. Stone, H. Fenercioglu, B.L. Hair, F.V. Huber, J.S. Stover, and J.M. Pisarczyk. 1979. Evaluation of potato cultivars for storage and chipping. Food Proc. & Tech. 1979: A Sum. of Res. OARDC Res. Circ. 250.

PAPERS PRESENTED AT PROFESSIONAL MEETINGS:

- Vandemark, J.S., J.M. Pisarczyk, and W.E. Splittstoesser. 1975. Defoliation of red kidney bean leaves with ethephon. HortScience 10(3):332.

-3-

PAPERS PRESENTED AT PROFESSIONAL MEETINGS:(cont.)

Pisarczyk, James M. and Walter E. Splittstoesser. 1977. Effects of SADH and UNI-P293 on yield of snap beans. Pl. Grow. Reg. Gr. Hot Springs National Park, Arkansas.

UNIVERSITY, COLLEGE AND DEPARTMENT COMMITTEES AND ACTIVITIES:

Pesticide Assessment Committee
 Water Resources Committee
 Computer Service Advisory Committee
 Libaray Committee
 Extension Committee
 Greenhouse Committee (OARDC)
 Farm Committee (OARDC)

SCIENTIFIC AND PROFESSIONAL SOCIETIES:

American Society for Horticultural Science
 American Society of Plant Physiologists
 The Potato Association of America
 Plant Growth Regulator Working Group

HONORS AND AWARDS:

H.G. and H.A. Wright Fellowship in Horticulture, 8/77-8/78
 Phi Kappa Phi - Inducted 1977

GRANT OR GIFT SUPPORT RECEIVED:

| <u>Year</u> | <u>Source</u> | <u>Purpose</u> | <u>Amount</u> |
|-------------|----------------------------|--------------------------|---------------|
| 1979 | Ohio Potato Growers Assoc. | Support potato research | \$1,000.00 |
| 1979 | Uniroyal Chemical Company | Growth regulator studies | 500.00 |

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NAME: Hugh A. Poole

DATE OF BIRTH: July 30, 1948

TITLE: Assistant Professor

AGE: 31

ASSIGNMENT: O.A.R.D.C. 25% O.S.U 0% O.C.E.S. 75%

EDUCATION:

| <u>Degree</u> | <u>Year</u> | <u>Institution</u> | <u>Major</u> |
|---------------|-------------|-----------------------|-------------------------|
| B.S. | 1970 | University of Florida | Ornamental Horticulture |
| M.S. | 1971 | University of Florida | Ornamental Horticulture |
| Ph.D. | 1974 | Cornell University | Floriculture |

POSITIONS HELD:

1978- Assistant Professor, Department of Horticulture, Ohio Agricultural Research and Development Center, Wooster and Ohio State University, Greenhouse Energy Management and Commercial Floriculture.

1974-78 Assistant Professor, Department of Horticulture, Ohio Agricultural Research and Development Center, Wooster and Ohio State University, Commercial Floriculture.

1971-74 Research Assistant, Department of Floriculture and Ornamental Horticulture, Cornell University, Ithaca, New York.

1970-71 Research Assistant, Department of Ornamental Horticulture, University of Florida, Gainesville, Florida.

YEARS AT THE OHIO STATE UNIVERSITY: 5 1/2

RESIDENT INSTRUCTION:

No major involvements

RESEARCH ACTIVITIES:

State 275 - Conserving Energy in Ohio Glass Greenhouses. (100% of research Special time is devoted to this project.)

O.C.E.S. INVOLVEMENT:

Conserving Energy in Ohio Greenhouses. (67% of extension time is devoted to this program.)

Commercial Floriculture Production in Ohio. (33% of extension time is devoted to this program.)

PUBLICATIONS:

Journal Articles

ASHS Special Committee on Growth Chamber Environments. 1977. Revised guidelines for reporting studies in controlled environment chambers. HortSci. 12:309-10.

Poole, Hugh A. and John G. Seeley. 1978. Nitrogen, potassium and magnesium nutrition of three orchid genera. J. Amer. Soc. Hort. Sci. 103:485-488.

Journal Articles (cont.)

- Daft, G.C., H.A. Poole and H.A.J. Hoitink. 1979. Composted hardwood bark: a substitute for steam sterilization and fungicide drenches for control of poinsettia crown and root rot. HortSci. 14:185-87.
- Hoitink, H.A.J. and H.A. Poole. 1980. Factors affecting quality of composts for utilization in container media. HortSci. 15 (in press).

Technical Articles

- Poole, Hugh A. and Thomas A. Fretz. 1977. Aggregated fly ash as a media amendment for container-grown plants. HortSci. 12:409.
- Poole, Hugh A. and John G. Seeley. 1977. Effects of artificial light sources, intensity, watering frequency and fertilization practices on growth of Cattleya, Cymbidium and Phalaenopsis orchids. Amer. Orchid Soc. Bul. 46: 923-928.
- Poole, Hugh A. and John G. Seeley. 1977. Review of artificial lighting and indoor culture for orchids. Amer. Orchid Soc. Bul. 46:318-327.
- Poole, Hugh A., ed. 1978. Proceedings of the Practical Tips on Energy Conservation in Greenhouses School. Columbus, Ohio:
- Poole, Hugh A. 1978. Growth Regulator Chart. Ohio Flor. Assn. Bul. No. 580.
- Hoitink, H.A.J., J.H. Wilson and H.A. Poole. 1978. Factors affecting composting of hardwood tree bark. Proc. Second Woody Ornamental Disease Workshop, Univ. of Missouri, Columbia. p. 11-18.
- Langhans, R.W. and H.A. Poole. 1978. Commercial use of controlled environments. IN Growth Chamber Environments. Proc. of XXth International Horticultural Congress. Sidney, Australia. Phytotron Newsletter 19.
- Poole, H.A. 1978. Effects of ethephon and daylength on growth, coloration and flowering of Zebrina pendula Schnizl. HortSci. 13:381.
- Fertz, T.A., H.A. Poole, and W.J. Shepphard. 1978. Aggregated fly ash as a medium amendment for container-grown nursery crops. HortSci. 13:385.
- Poole, H.A. and H.A.J. Hoitink. 1979. Evaluation of soil and soilless media for floral crops. HortSci. 14:436.
- Badger, P.C. and H.A. Poole. 1979. Conserving energy in ohio greenhouses. OARDC Spec. Circ. 102, Ext. Bul. 651.
- Poole, H.A. and D. Pittenger. 1980. Care of foliage and flowering plants for retail outlets. OCES Ext. Bul. 661.
- Poole, H.A. and P.C. Badger. 1980. Cultural practices to improve energy management in Ohio greenhouses. OARDC Spec. Circ., Ext. Bul. (in press).

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OTHER PUBLISHED MATERIAL:

- Poole, H.A. and H.K. Tayama. 1976. Extension Slants--The hidden costs of poor soils: losses. Ohio Flor. Assn. Bul. No. 559.
- Poole, H.A. and H.K. Tayama. 1976. Extension Slants -- Soil costs -- are you making the right decisions? Ohio Flor. Assn. Bul. No. 558.
- Poole, H.A. and H.K. Tayama. 1976. Extension Slants -- The proper use of growth regulators. Ohio Flor. Assn. Bul. No. 557.
- Poole, H.A. 1976. Fuel usage - a survey of northeast Ohio Greenhouse growers. Ohio Flor. Assn. Bul. No. 563:2-3.
- Hoitink, H.A.J. and H.A. Poole. 1977. Composted mark media for control of soil-borne plant pathogens. Amer. Nurseryman 144(5):15, 88, 80.
- Poole, H.A. 1977. Costs and losses of soil and soilless media. Flor. Rev. 159 (4132):62, 87-91.
- Hoitink, H.A.J. and H.A. Poole. 1977. Composted bark media for control of soil-borne plant pathogens. Ohio Flor. Assn. Bul. 567:10-11.
- Poole, Hugh A. and Thomas A. Fretz. 1978. Aggregated fly ash as an amendment for container-grown plants. Ohio Flor. Assn. Bul. No. 583:4.
- Poole, Hugh A. 1978. The cost of fuel in greenhouse production. IN Proceedings of the Practical Tips on Energy Conservation in Greenhouse School. Ohio Coop. Ext. Serv., Columbus.
- Poole, Hugh A. 1978. Cultural factors to conserve energy in greenhouses. IN Proceedings of the Practical Tips on Energy Conservation in Greenhouse School. Ohio Coop. Ext. Serv., Columbus.
- Poole, Hugh A. 1978. Extension Slants -- Cultural factors to conserve energy in greenhouses. Ohio Flor. Assn. Bul. No. 587:5-6, 11.
- Poole, Hugh A. 1978. Costs and losses of soil and soilless media. Ohio Flor. Assn. Bul. No. 584:10-12.
- Hoitink, H.A.J. and H.A. Poole. 1979. Factors that affect bark composting. Am. Nurseryman 150(2):23, 180, 190, 192, 194, 196 and 199.
- Hoitink, H.A.J. and H.A. Poole. 1979. Mass production of composted tree barks for container media. Ohio Flor. Assn. Bul. No. 599:3-4.

MAJOR OUT-OF-STATE SPEAKING ENGAGEMENTS:

- Metro-Detroit Flower Growers Association, Michigan. Topic: Foliage Production in Midwest. November 1975.
- Central Indiana Flower Growers Association, Indiana. Topic: Energy Conservation. August 1977.

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MAJOR "OUT-OF-STATE" SPEAKING ENGAGEMENTS (cont.):

Bedding Plants, Inc. International Meeting, Colorado. Topic: Energy Conservation. October 1977.
 Mississippi Ornamental Horticultural Field Day, Mississippi. Topic: Energy Conservation. October 1977.
 Central Florida Foliage Growers Association, Florida. Topic: Energy Conservation. July 1978.
 Bark Utilization Seminar, Iowa and Illinois. Topic: Composted Bark for Growing Media. September 1978.
 Central Indiana Flower Growers, Indiana. Topic: Spring Crop Production Practices. February 1979.
 Greenhouse Management Institute, Washington. Topics: Bark Media and Energy Conservation. June 1979.
 Ornamental Northwest Seminars, Oregon. Topic: Growth Chambers. August 1979.
 Western Pennsylvania Flower Growers. Pennsylvania. Topic: Soil and Soilless Media. November 1979.
 Canadian Greenhouse Conference. Ontario. Topic: Energy Conservation. November 1979.
 Florida Foliage Short Course, Florida. Topic: Energy Conservation, January 1980.

UNIVERSITY, COLLEGE AND DEPARTMENT COMMITTEES & ACTIVITIES:

Greenhouse Committee, OARDC, 1974-present. (Chairman 1977-present)
 Agricultural Technical Institute Advisory Committee, Floriculture, 1975-present.
 Ohio Florists' Short Course Planning Committee, 1974-present.

Speaking Engagements:

Ohio Florists Short Course, Columbus. January 1975
 Southern Ohio Flower Growers, Portsmouth. January 1975.
 Roses, Inc. Eastern Region, Wooster. June 1975
 Ohio Florists Association Summer Meeting, Columbus. July 1975.
 Toledo Area Flower Growers, Toledo. November 1975.
 Ohio Florists Short Course, Columbus. January 1976.
 Ohio Potato & Vegetable Growers, Columbus. February 1976.
 Stark County Florists Association, Canton. March 1976.
 Northwest Ohio Flower Growers, Kalida. March 1976.
 Toledo Area Flower Growers, Toledo. April 1976.
 East-Central Flower Growers, Beach City. June 1976.
 DuPage Horticulture School, Wooster. June 1976.
 Society of American Florists Retailers, Columbus. July 1976.
 Ohio Florists Association Summer Meeting, Columbus. July 1976.
 Cleveland Area Flower Growers, Olmsted Fall. September 1976.
 Cleveland Area Flower Growers, Strongsville. October 1976.
 Tri-County Flower Growers, Warren. October 1976.
 Toledo Area Flower Growers, Toledo. November 1976.
 Southwest Ohio Garden Center Operators, Dayton. November 1976.
 Central Ohio Flower Growers, Columbus. November 1976.
 Cleveland Flower Growers, Cleveland. November 1976.
 Cincinnati Flower Growers, Cincinnati. December 1976.
 Ohio Florists Short Course, Columbus. January 1977.
 Northeast Ohio Horticulture Trade Meeting, Cleveland. February 1977.
 Nebraska Florists Tour, Cleveland. March 1977.
 Central Ohio Florists & Garden Center Operators, Columbus. March 1977.

Speaking Engagements (cont.)

Northwest Ohio Flower Growers, Kalida. March 1977.
 Solar Energy Conference, Cleveland. March 1977.
 Greenhouse Vegetable Conference, Cleveland. March 1977.
 Toledo Bedding Plant Growers, Toledo. April 1977.
 Energy Conservation in Greenhouses, Wooster. April 1977.
 Cleveland Area Flower Growers, Cleveland. April 1977.
 Toledo Flower Growers, Toledo. June 1977.
 Southwest Ohio Flower Growers, Dayton. June 1977.
 Energy Conservation School, Columbus. June 1977.
 Vo-Hort Teachers In-Service, Columbus. June 1977.
 Vo-Hort Teachers In-Service, Columbus. July 1977.
 Business Management for Retailers, Toledo. August 1977.
 Business Management for Retailers, Cleveland. August 1977.
 Business Management for Retailers, Columbus. August 1977.
 Business Management for Retailers, Cincinnati. August 1977.
 Cincinnati Flower Growers, Cincinnati. September 1977.
 Midwestern Foliage School, Wooster. September 1977.
 Central Ohio Flowers Growers, Granville. October 1977.
 Russian Agriculture Tour, Cleveland. October 1977.
 Southwest Ohio Flowers Growers, Dayton. November 1977.
 Toledo Retail Florists, Toledo. November 1977.
 Cleveland Flower Growers, Cleveland. December 1977.
 Toledo Bedding Plant Growers, Toledo. December 1977.
 Ohio Florists Short Course, Columbus. January 1978.
 Northeast Ohio Nurserymen, Cleveland. February 1978.
 Northwest Ohio Flower Growers, Kalida. March 1978.
 Vo-Hort Teachers In-Service, Columbus. July 1978.
 American Lily Society, Wooster. July 1978.
 National Mens' Garden Club, Wooster. July 1978.
 Vo-Hort Teachers In-Service, Canfield. July 1978.
 Northeast Ohio Nurserymen, Painesville. September 1978.
 Southwest Ohio Flower Growers, Sidney. September 1978.
 Energy Conservation Workshop, Wooster. September 1978.
 National Junior Horticultural Association, Wooster. October 1978.
 Southwest Ohio Flower Growers, Springfield. November 1978.
 Southern Ohio Flower Growers, Portsmouth. December 1978.
 Cincinnati Flower Growers, Cincinnati. December 1978.
 Ohio Florists Short Course, Columbus. January 1979.
 Cincinnati Flower Growers, Cincinnati. April 1979.
 Vo-Hort Teachers In-Service, Wooster. May 1979.
 American Society for Horticultural Science. Wooster & Columbus, July 1979.
 Cleveland Flower Growers, Cleveland. August 1979.
 Cincinnati Flower Growers, Cincinnati. September 1979.
 National Greenhouse Vegetable & Energy Conference, Cleveland. September 1979.
 East Central Ohio Flower Growers, Beach City. October 1979.
 Tri-County Flower Growers, Columbiana. November 1979.
 Northwest Ohio Flower Growers, Kalida. November 1979.
 Southwest Ohio Flower Growers, Xenia. November 1979.
 Northeast Ohio Nurserymen, Painesville. November 1979.
 Toledo Bedding Plant Growers, Toledo. December 1979.
 Ohio Florists' Short Course, Columbus. January 1980.

Speaking Engagements (cont.)

Ohio Nurserymen's Short Course, Columbus. January 1980.
Ohio Vegetable and Potato Growers Short Course, Columbus. February 1980.

NON-UNIVERSITY PROFESSIONAL ACTIVITIES

Educational Programs

Northern Ohio Light Gardening Society, Mansfield. January 1975.
Seminar Program for Smithers Co., Hudson. May 1975.
Walter J. Engle, Inc. Open House, Columbus. October 1975.
Miami Valley Orchid Society, Dayton. December 1975.
Seminar Program for O.M. Scotts, Marysville. February 1976.
Kingwood Garden Center Spring Day, Mansfield. April 1976.
Cleveland Area Orchid Society, Cleveland. November 1976.
Ohio Edison Marketing Conference, Akron. February 1977.
ASHS Growth Chamber Environments, Beltsville, MD. March 1977.
Kingwood Garden Center Spring Day, Mansfield. April 1977.
Electricity Short Course, Smithville. July 1977.
ASHS Growth Chamber Environments, Fargo, ND. March 1978.

Travel Opportunities

USDA Open House, Beltsville, MD. January 1975.
NC State University, Raleigh, NC. June 1975.
Ohio Florists Assoc. Tour., California. August 1975.
Ohio Florists Assoc. Tour, Ontario, Canada. August 1976.
National Foliage Short Course. Orlando, FL. January 1977.
Data Collection in California, Davis, CA. October 1977.
Cornell Open House, Ithaca, NY. January 1978.
European Tour, England & Holland. April-May 1978.
Bedding Plants, Inc., Toronto, Canada. October 1978.
National Agricultural Plastics Conf., Miami, FL. November 1978.
Society of American Florists Grow Show, New Orleans, LA. June 1979

Speaking Engagements

American Society for Horticultural Science, Baton Rouge, LA. August 1976.
American Society for Horticultural Science, Salt Lake City, UT. October 1977.
American Society for Horticultural Science, Boston, MA. July 1978.
American Society for Horticultural Science, Columbus, OH. July 1979.

SCIENTIFIC AND PROFESSIONAL SOCIETIES:

American Society for Horticultural Science
 Graduate Student Activities 1973-1976
 Growth Chamber Environments 1976-1980
 Floriculture 1978-1980
International Society for Horticultural Science
Tropical Region, ASHS
Florida State Horticultural Society
American Horticultural Society
American Orchid Society
Ohio Florists' Association

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NON-UNIVERSITY PROFESSIONAL ACTIVITIES (cont.)

Speaking Engagements

Bedding Plants, Inc.
 Gamma Sigma Delta
 Sigma Xi

RESEARCH GIFTS AND GRANTS (1976-1980):

| | | |
|-------------------------------|--------------------------------|-----------|
| Ohio Department of Energy* | Greenhouse Energy Conservation | \$343,000 |
| Mead, Inc.* | Media Studies | 75,000 |
| Smithers Co. | Media Studies | 10,000 |
| Kroger Co. | Care & Handling Studies | 10,000 |
| O.M. Scott | Nutrition Studies | 5,000 |
| Welch, Inc.* | Media Studies | 5,000 |
| Fred C. Gloeckner Foundation* | Media Studies | 5,000 |
| Penn-Virginia Mat. Corp. | Media Studies | 3,000 |
| Rubbermaid, Inc. | Care & Handling Studies | 1,000 |

* Inter-departmental cooperative grants.

COMMENTS:

My present research responsibilities include crop response of commonly grown floral crops to environments that are created by energy conservation measures. Typically there environments will alter light intensity, carbon dioxide concentrations and humidity. It is important to compensate for these potential problems by physical and cultural means to assure maximum crop quality and energy conservation.

Prior to March 1978, my research responsibilities revolved around factors affecting production efficiency. These studies included work with soilless media, slow-release fertilizer sources, light intensity and temperature. Some of this work continued on a limited scale due to the vacancy that will not be filled until April 1980.

Presently, extension accounts for 75% of my time, most of it dealing with greenhouse energy management. Ohio State has the leading program in the United States for informing growers about energy conservation measures and concerns via publications, newsletters, national, state and local meetings and individual grower contacts.

My time and programs have often been in support of other commodity areas (greenhouse vegetable, nursery and garden center) in horticultural as well as agricultural education, agricultural engineering, entomology, home economics and plant pathology and the Agricultural Technical Institution.

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Name: Jerry L. RobertsonDate of Birth: May 3, 1948Title: Associate ProfessorAge: 31Assignment: The Ohio State University-50%, O.A.R.D.C.-50%Education:

| <u>Degree</u> | <u>Year</u> | <u>Institution</u> | <u>Specialization</u> |
|---------------|----------------|--------------------|-------------------------|
| B.S. | June, 1970 | Purdue University | Hort. Mkting.-Economics |
| M.S. | December, 1972 | Purdue University | " " " |
| Ph.D. | August, 1974 | Purdue University | " " " |

Positions Held:

Indiana Farm Bureau: Employee of Printing Department
June, 1968 - September, 1968

Indiana Farm Bureau: Student Management Program
June, 1969 - September, 1969

Purdue University: Employee of Horticulture Farms and Greenhouse
September, 1968 - June, 1969
September, 1969 - June, 1970

Purdue University: Market Research Assistant in Floriculture
July, 1970 - June, 1974

The Ohio State University and The Ohio Agricultural Research
and Development Center:
Assistant Professor of Horticultural Marketing
July, 1974 - July, 1978
Associate Professor of Horticultural Marketing
July, 1978 - Present

Years at the Ohio State University: 5Resident Instruction:

| <u>Course Number</u> | <u>Title</u> | <u>Quarters Taught</u> | <u>Number of Students</u> |
|----------------------|--------------------------|------------------------|---------------------------|
| Horticulture 594, | Horticulture Marketing, | W-75 | 30 |
| " 694, | Horticulture Marketing, | W-76 | 45 |
| " 694, | Greenhouse Management, | S-76 | 12 |
| " 694, | Retail Horticulture | S-75, | 8 |
| | Management | S-76 | 25 |
| " 624, | Floriculture Market- | S-75, | 25 |
| | ing & Management | S-79 | 30 |
| " 524, | Floriculture Market- | S-77, | 25 |
| | ing & Management | S-78 | 25 |
| " 694, | Commercial Floral Design | S-75, | 25 |
| | | S-76, | 50 |
| " 424, | Commercial Floral Design | S-77, | 50 |
| | | S-78 | 55 |
| " 525, | Landscape and Garden- | W-78 | 15 |
| | Center Management | | |

Undergraduate Advisees: Autumn 1979 - 80

Graduate Study Involvements:

Number of Advisees Past Five Years (1-1-75 to 1-1-80):

M.S. - 4

Ph.D. - 1

Number of Program Completions Past Five Years:

M.S. - 3

Ph.D. - 0

Research Activities:

HATCH H586 - Improving the Economic Viability of the Marketing System For Ornamental Crops (100%).

Hatch Project H586 has involved research in the marketing and economics of horticultural crops. In the short-run, this has involved the solution of relevant marketing and management problems of the Ohio and U.S. horticultural industries. The long-run objective is to develop an informational base essential to the improvement of the market performance of the horticultural industries. Special emphasis has been placed on research involving the floriculture and nursery industries.

O.C.E.S. Involvements:

The contributions in the public service area focus on presentations at educational meetings and conventions, extension articles and participation in programs such as Farm Science Review.

Presentations: Since October, 1974, I have made 61 presentations. This includes 36 presentations in Ohio and 25 presentations out-of-state. Of the in-state presentations 9 were Short Course or Ohio Horticulture Society presentations in Columbus, 3 were OARDC presentations in Wooster, and 24 were regional schools in the state.

Short Course Programs: A public service function has been the leadership in developing management and marketing program at The Ohio State University with the Ohio Florists' Short Course. This has meant guidance of the Short Course planning committee, presiding over the management sessions and directing the execution of the program with the other floriculture faculty. A major effort has been placed in topic and speaker involvement as well as public relations efforts to increase attendance and the level of management expertise.

Other Educational Efforts: Other major efforts have included educational programs coordinated with the Cooperative Extension Service, the Ohio Florists' Association and other local organizations. The major off-campus educational functions have focused on the Ohio regional meetings, the Ohio Florists' Short Course, the Ohio nursery Short Course and the Ohio Horticultural Society Annual Meeting.

University, College and Departmental Committees and Activities:

College Committees:

College Greenhouse Vegetable Committee, 1974-1977
College Computer Access Committee, 1975-1977, 1979
College Minority Affairs Committee, 1975-1977

Departmental Committees:

Departmental Seminar Committee, 1976-1979 (Chairman)
Departmental Graduate Committee, 1977-1979
Departmental Undergraduate Committee, 1976-1979 (Chairman)

Other Services in the College of Agriculture:

Youth and Science Day, 1974-1976
Freshman Exploratory Meeting, 1974-1979
Career Conference Day, 1974-1975
Farm Science Review
Agriculture College Recruitment Program, 1974-1978
Agriculture Spring Quarter Honors Program Decoration
Committee Advisor 1975-1977

Professional Societies and Organizations:

American Society for Horticultural Sciences
Ohio Florists' Association
American Marketing Association
Society of American Florists- Quality Control Committee

Grants:

| | | |
|------|--|----------|
| 1976 | Society of American Florists Endowment | \$ 5,000 |
| 1977 | " " " " | 5,000 |
| 1977 | Roses, Inc. | 10,000 |
| 1978 | Society of American Florists Endowment | 5,000 |
| 1978 | Roses, Inc. | 5,000 |
| 1979 | Society of American Florists Endowment | 6,500 |
| 1979 | Horticultural Research Institute | 500 |
| 1980 | Ohio Florists' Assn. | 4,000 |

PUBLICATIONSJournal Articles

- Sullivan G.L. and J.L. Robertson. 1972. Organization and practices in midwestern terminal wholesale markets for flowers. Purdue Univ. Agr. Exp. Sta. Bul. No. 886, May.
- Robertson, J.L. and G.H. Sullivan. 1974. Market structure characteristics among midwestern wholesale producers of floriculture crops. HortScience 9(4):351-354.
- Robertson, J.L. and G.H. Sullivan. 1974. Interregional competition in the flower crops. Florida St. Hort. Soc. 87(1):426-467.
- Sullivan, G.H., G.E. Wilcox, R.Y. Uyeshiro and J.L. Robertson. 1974. Precipitation and the economic feasibility of harvest mechanization for processing tomatoes. HortScience 9(4):389-391.
- Sullivan, G.H. and J.L. Robertson. 1974. Production, marketing and economic trends in the greenhouse tomato industry. Purdue Univ. Agr. Exp. Sta. Res. Bul. No. 908, June.
- Sullivan, G.H. and J.L. Robertson. 1975. Interregional competition in the production and supply of hybrid tea rose: implications for world markets. Purdue Agr. Exp. Sta. Journ. Paper No. 5922.
- Robertson, J.L. and G.L. Staby. 1976. Economic feasibility of once-over bud harvest of standard chrysanthemums. HortScience 11(2):159,160.
- Robertson, J.L. and G.H. Sullivan. 1976. An analysis of interregional and foreign competition for carnations. J. Amer. Soc. Hort. Sci. 101(1):40-44.
- Robertson, J.L. and D.E. Hahn. 1978. Analysis of demand for potted chrysanthemums in supermarkets. J. Amer. Soc. Hort. Sci. 103(2):203-206.
- Robertson, J.L. and E.J. Stang. 1978. Economic feasibility of over-tree misting for bloom delay in apples and peaches. J. Amer. Soc. Hort. Sci. 103(2):242-245.
- Hutchison, N.R. and J.L. Robertson. 1979. Consumer demand for roses. J. Amer. Soc. Hort. Sci. 104(3):303-308.
- Hahn, D.E., J.L. Robertson, and E.M. Smith. 1979. An analysis of production costs for containerized nursery products. O.A.R.D.C. Res. Circ. 246.

Technical Articles

- Tayama, H.K., D.C. Kiplinger, W.M. Brooks, G.L. Staby, C.C. Powell, R.K. Lindquist, H.A. Poole, J.D. Farley, and J.L. Robertson. 1975, 1976, 1977, 1978, 1979. Tips on growing ornamental and vegetable bedding plants. Coop. Ext. Serv., The Ohio State Univ. Bul. MM265.

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Technical Articles (cont.)

- Robertson, J.L. 1975. Effective selling. Ohio Florists' Assn. Bul. 552.
- Robertson, J.L. 1975. Interregional competition for carnations. Proc. Ann. Carnation Society, March.
- Robertson, J.L. 1976. The Ohio State University floral market survey for the production sector. Ohio Florists' Assn. Bul. 564.
- Robertson, J.L. and G.L. Staby. 1976. Economic feasibility of once-over bud harvest of standard chrysanthemums. Florists' Rev. 158(4094):33, 80-82.
- Robertson, J.L. and G.L. Staby. 1976. Feasibility of once-over bud harvest of chrysanthemums. Ohio Report 61(3):38-40.
- Staby, G.L., J.L. Robertson, D.C. Kiplinger, and C. Conover. 1976. Proceedings of national conference on commodity handling. Hort. Ser. 432, Chicago, IL.
- Staby, G.L., J. Bridenbaugh and J.L. Robertson. 1976. Treated properly, fresh flowers and plants last longer, sell better. Florists' Rev. 158(4084):33, 76-78.
- Sterns, S., J.L. Robertson and G.L. Staby. 1976. Take a fresh look at your product. Teleflora Spirit. 46(10):28, 29, 63-66.
- Sterns, S., J.L. Robertson and G.L. Staby. 1976. Our flowers are dying. Teleflora Spirit. 24-26, 53-57.
- Sterns, S., J.L. Robertson and G.L. Staby. 1976. Needed now: better product care and handling. Teleflora Spirit. 46(5):24,25,64-67.
- Robertson, J.L. and G.L. Staby. 1976. Economic feasibility of once-over bud harvest of standard chrysanthemums. Ohio Florists' Assn. Bul. 559.
- Robertson, J.L. 1977. The Ohio State University floral market survey for retailing. Ohio Florists' Ann. Bul. 569.
- Robertson, J.L. 1977. The Ohio State University floral market survey for retailing. Florists' Review 160(4142):31, 44-49.
- Robertson, J.L. and G.L. Staby. 1977. Chain of life...your link to higher profits. Florafacts 2(2):17-23.
- Robertson, J.L. and D.E. Hahn. 1977. An analysis of demand characteristics and market system for roses: an exploratory report. Roses Inc. Bul., Sept.
- Robertson, J.L. and N.R. Hutchison. 1978. An analysis of the consumer demand for roses. Roses Inc. Bul., May.
- Robertson, J.L. 1978. Poinsettia production costs analysis. Ohio Florists' Assn. Bul., Nov.

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Technical Articles (cont.)

- Robertson, J.L. 1978. What's the future for roses? Florist 12(7):58-63.
- Hutchison, N.R. and J.L. Robertson. 1979. Tailoring marketing programs to the life styles of consumers. Florists' Review 163(4234):27-29, 72-74.
- Robertson, J.L., D.B. Perry, and N.R. Hutchison. 1979. Where is the mass market headed in '79? New York St. Flower Indust., Inc. #103, February.
- Robertson, J.L. 1979. How to tackle today's floral market and win more sales. Teleflorist. 49(3):30-36.
- Perry, D.B. and J.L. Robertson. 1979. Tax shelters for the nursery industry. The Buckeye Nurseryman, April.
- Perry, D.B. and J.L. Robertson. 1979. Key business performance indicators for retail florists. Florists' Review. 164(4264):25,26,62-70.

PAPERS PRESENTED AT PROFESSIONAL MEETINGS

- Sullivan, G.H. and J.L. Robertson. 1971. Analysis of structure and organization of midwestern terminal wholesale flower markets. 68th Ann. Meet. Amer. Soc. for Hort. Sci., Kansas St. Univ., Manhattan, KS.
- Sullivan, G.H. and J.L. Robertson. 1972. Greenhouse tomato industry: production, economic and market trends. 69th Ann. Meet., Amer. Soc. Hort. Sci., St. Paul, MN.
- Sullivan, G.H., J.L. Robertson, G.E. Wilcox and R.Y. Uyeshiro. 1972. Precipitation and the economic feasibility of harvest mechanization for processing tomatoes. 69th Ann. Meet. Amer. Soc. Hort. Sci., St. Paul, MN.
- Robertson, J.L. and G.H. Sullivan. 1973. Organizational changes among midwestern wholesale producers of florist crops. 70th Ann. Meet. Amer. Soc. Hort. Sci. North Carolina St. Univ., Raleigh, NC.
- Robertson, J.L. and G.H. Sullivan. 1974. Impact of Latin American competition on the U.S. cut flower industry. 71st Ann. Meet., Amer. Soc. Hort. Sci., Univ. Guelph, Ontario, Canada.
- Robertson, J.L. and G.L. Staby. 1976. Economic feasibility of bud harvest and transportation of standard chrysanthemums. 73rd Ann. Meet., Amer. Soc. Hort. Sci., Louisiana St. Univ., Baton Rouge, LA.
- Robertson, J.L. and E.J. Stang. 1976. Economic feasibility of over-tree misting for bloom delay for apples and peaches. 73rd Ann. Meet., Amer. Soc. Hort. Sci., Louisiana St. Univ., Baton Rouge, LA.
- Robertson, J.L., C. Mount-Campbell and N.R. Hutchison. 1977. Potted plant production schedule and product mix optimization model. 74th Ann. Meet. Amer. Soc. Hort. Sci., Salt Lake City, UT.

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PAPERS PRESENTED AT PROFESSIONAL MEETINGS (cont.)

- Utzinger, J.D. and J.L. Robertson. 1978. Computerized soil test recommendations for home vegetable gardeners. 75th Ann. Meet., Amer. Soc. Hort. Sci., Boston, MA.
- Hutchison, N.R. and J.L. Robertson. 1978. An analysis of the consumer demand for roses. 75th Ann. Meet., Amer. Soc. Hort. Sci., Boston, MA.
- Robertson, J.L., D.E. Hahn, and E.M. Smith. 1979. An analysis of production costs for container nursery products. 76th Ann. Meet. Amer. Soc. Hort. Sci., Columbus OH.
- Perry, D.B., J.L. Robertson and A.J. Supowit. 1979. Computer analysis of containerized nursery stock production costs. 76th Ann. Meet. Amer. Soc. Hort. Sci., Columbus, OH.
- Robertson, J.L. and N.R. Hutchison. 1979. Analysis of fresh flower merchandising. 76th Ann. Meet. Amer. Soc. Hort. Sci., Columbus, OH.
- Fouse, R.E., B.A. Eisenberg and J.L. Robertson. 1979. Horticulture therapy with the blind. 76th Ann. Meet. Amer. Soc. Hort. Sci., Columbus, OH.
- Erwin, J.W. and J.L. Robertson. 1979. Market structure and strategies in direct marketing of fruits and vegetables in the midwest. 76th Ann. Meet. Amer. Soc. Hort. Sci., Columbus, OH.
- Competition of Foreign Flowers, Walter J. Engle, Inc., Open House and Design School. Columbus, OH, October 27, 1974.
- The Economics of Flower Production, Cincinnati Flower Growers Association Meeting. Cincinnati, OH, December 4, 1974.
- Cost of Production, (Jerry Robertson, James Erwin, Robert Bernachi, Ralph Bachmann), 1975 Ohio Florists' Short Course. Columbus, OH, January 12, 1975.
- Three Approaches to Increasing Volume and Profit. (Jerry Robertson, Dick Adgate, Charles Davis, Chuck Alexander). 1975 Ohio Florists' Short Course. Columbus, OH, January 12, 1975.
- Garden Center Products in the Future. 1975 Ohio Nursery Short Course. Columbus, OH, January 22, 1975.
- The Economic Survival of the Retail Florist. Cleveland Home and Flower Show. Cleveland, OH, February 19, 1975.
- Foreign Flower Competition. American Carnation Society 81st Annual Meeting. Denver, CO, March 4, 1975.
- Effective Floral Marketing. Greater Cleveland Area Flower Growers Meeting. Medina, OH, September 25, 1975.

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PAPERS PRESENTED AT PROFESSIONAL MEETINGS (cont.)

How to Kill Flowers and Plants. (George Staby, James Bridenbaugh, Jerry Robertson.)
1976 Ohio Florists' Short Course, Columbus, OH, January 18, 1976.

Floral Product Shrinkage. National Floriculture Conference on Commodity Handling.
Chicago, IL, February 23, 1976.

Cost of Production for Bedding Plants. Cincinnati Area Bedding Plant School.
Cincinnati, OH, February 24, 1976.

Economic Conditions in the Rose Industry. 1976 Central Regional Meeting of Roses,
Inc. Fort Mitchell, KY, March 10, 1976.

Garden Center Marketing. Greater Dayton Garden Center Association. Piqua, OH,
April 6, 1976.

Handle With Care: How to Impress Product Shelf Life, Quality and Marketing.
(George Staby, Jerry Robertson.) 1976 Teleflora International Conference.
St. Louis, MO., June 28, 1976.

All the Things You Wanted To Know About Retailing But Were Afraid to Ask. (Jerry
Robertson, Dick Adgate, Jack Connell, Charles Davis, Bernie Puffer, and Sam
Viviano.) 1976 Ohio Florists' Summer Short Course. Worthington, OH, July
18, 1976.

Chain of Life. (Jerry Robertson, George Staby, and Ralph Wright.) 92nd Annual
Convention, Society of American Florists. Boston, MA., July 13, 1976.

What You Get for Your Nursery Dollar. Turf and Landscape Day. Wooster, OH,
September 14, 1976.

The Cost and Economics of Mixing and Buying Media. Cleveland Area Soils and Soil-
Less Mixes School. Cleveland, OH, September 24, 1976.

Surviving in the Flower Shipping Business. California Chrysanthemum Growers Associa-
tion Meeting, Palo Alto, CA, October 18, 1976.

The Bedding Plant Industry: Its Growth and Growth Potential. Toledo Area Bedding
Plant School. Toledo, OH, November 9, 1976.

Cost of Production for the Geranium Crop. Cleveland Area Geranium School. North
Olmsted, OH, November 11, 1976.

The Changing Floral Market in the U.S. Colombian Export Flower Growers Association
Meeting. Bogota, Colombia, December 10, 1976.

Floral Business Succession. 1977 Ohio Florists' Short Course. Columbus, OH,
January 10, 1977.

Chain of Life. (George Staby and Jerry Robertson) 1977 Ohio Florists' Short
Course. Columbus, OH, January 12, 1977.

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PAPERS PRESENTED AT PROFESSIONAL MEETINGS (cont.)

The Mechanics of Cost Management. 1977 Ohio State Horticultural Society Annual Meeting. Columbus, OH, February 2, 1977.

The Changing Floral Market in the U.S. 31st Annual Georgia State Florists Convention. Macon, GA, February 21, 1977.

Effective Selling. Greater Dayton Garden Center Association Meeting. Cincinnati, OH, March 1977.

Effective Floral Product and Handling. (Jerry Robertson and George Staby.) King Sooper's Managers Meeting. Denver, CO, April 1977.

Floral Dept. Market Opportunities. (Jerry Robertson, George Staby, James Vosters.) Food Marketing Institute Produce Conference. Scottsdale, AZ., June 24, 1977.

Effective Selling. 1977 Florists Clearing Network Summer Convention. Atlanta, GA, July 19, 1977.

Profit Management. Business Management Clinic for Florists-Toledo Area. Toledo, OH, August 8, 1977.

Profit Management. Business Management Clinic for Florists-Cleveland Area. Cleveland, OH, August 9, 1977.

Profit Management. Business Management Clinic for Florists-Columbus Area. Columbus, OH, August 10, 1977.

Profit Management. Business Management Clinic for Florists-Cincinnati Area. Cincinnati, OH, August 11, 1977.

The Economics of Producing Poinsettias. 1977 Cincinnati Poinsettia School. Cincinnati, OH, September 7, 1977.

Up Date on Foliage Industry and Sales. Midwestern Foliage School for Retailers. Wooster, OH, September 14, 1977

Foliage Production in Perspective. Midwestern Foliage School for Growers. Wooster, OH, September 15, 1977.

Survival of the Retail Florist. New York State Retail Florists Club. Albany, NY, October 19, 1977.

Economics of Growing Hanging Baskets. Hanging Basket School - Cleveland Area. Cleveland, OH, December 1, 1977.

The Economics of Winter Storage Under Poly. Woody Ornamentals Winter Storage Symposium. Columbus, OH, December 9-10, 1977.

Mechanics of Cost Management. Bedding Plant School. Cincinnati, OH, February 24, 1977.

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PAPERS PRESENTED AT PROFESSIONAL MEETINGS (cont.)

- Rose Marketing. Roses Inc., Spring Meeting. Chicago, IL, March 1, 1977.
- Overview of U.S. Flower Industry. New York State Florist Symposium. Albany, NY, October 11, 1977.
- The Future of Small Business. 1978 Nursery Short Course, Arborist Program. Columbus, OH, January 23, 1978.
- Cooperative Apple Marketing and the Profit Picture. Ohio State Horticultural Society. Columbus, OH, February 1, 1978.
- Industry Trends and New Products. Food Marketing Institute, Produce Marketing Association Floral Operating Conference. Chicago, IL, February 23, 1978.
- Floral Mass Marketing: State of the Art. Associated Growers Management Conference. Seattle, WA, March 21, 1978.
- Optimizing Your Marketing and Production Schedule. Operations and Business Management for Growers. Columbus, OH, June 21, 1978.
- A Look at the Floral Market. PFCI Workshop. Detroit, MI, July 26, 1978.
- Keys to Success in the Floral Business. Society of American Florists Retailer Program. Detroit, MI, July 27, 1978.
- The Economics of Proper Temperature Management for Floral Products. Society of American Florists National Convention. Detroit, MI, July 29, 1978.
- Keys to Success in the Floral Business. Dayton Allied Annual Meeting. Dayton, OH, October 1978.
- Consumer Rose Demand and How To Capitalize On It. Roses Inc. Annual Meeting. Boston, MA, October 2, 1979.
- Analysis of Production Costs of Container Nursery Stock. Ohio Nursery Short Course. Columbus, OH, January 22, 1979.
- Keys to Profitable Garden Center Management. Nursery Landscape and Grounds Maintenance Seminar. Cincinnati, OH, February 15, 1979.
- How TO Market Your Landscape Services. National Landscape Association, Garden Management Clinic. Louisville, KY, February 18, 1979.
- Profitable Production of Bedding Plants. Cleveland Area Bedding Plant School. February 8, 1979.
- Buying Stock in the Floral Industry: An Investment for the "80's". Georgia State Florist Assn. Annual Meeting. Callaway Gardens, GA, March 5, 1979.

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PAPERS PRESENTED AT PROFESSIONAL MEETINGS (cont.)

Insights for the "80's": Marketing and Merchandising. (Jerry Robertson, John Peterson, George Staby.) 1979 Teleflora National. Hollywood, FL, July 9, 1979.

The Basics of Marketing--Bedding Plant Merchandising: A Look to the Future. Bedding Plant, Inc. Annual Conference. Lincolnshire, IL, October 8, 1979.

Floral Merchandising in Supermarkets. (Jerry Robertson and George Staby.) Production Marketing Assn. Conference. Pheonix, AZ, October 27, 1979.

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NAME: Howard A. Rollins, Jr.DATE OF BIRTH: JULY 12, 1927TITLE Professor/ChairmanAGE: 52ASSIGNMENT: O.S.U. 50% O.A.R.D.C. 25% C.E.S. 25%EDUCATION:

| <u>Degree</u> | <u>Year</u> | <u>Institution</u> | <u>Major</u> |
|---------------|-------------|-----------------------------|--------------|
| B.S. | 1950 | University of Connecticut | Horticulture |
| M.S. | 1951 | University of New Hampshire | Horticulture |
| Ph.D. | 1954 | The Ohio State University | Horticulture |

POSITIONS HELD:

1970-Present Chairman, Department of Horticulture, The Ohio State University and the Ohio Agricultural Research and Development Center. Responsible for the research, teaching and extension programs of the department.

1967-70 Head, Department of Horticulture, Virginia Polytechnic Institute. Responsible for the research, teaching and extension programs of the department.

1956-67 Associate Professor of Horticulture, Virginia Polytechnic Institute stationed at Blacksburg. Research with tree fruits, project leader of horticultural extension programs involving eleven state specialists, and coordinator of the Virginia Spray Service. Promoted to Professor in 1958.

1954-56 Associate Professor of Horticulture, Virginia Polytechnic Institute, stationed at the Winchester Fruit Research Laboratory. Conducted research and extension with tree fruits.

YEARS AT THE OHIO STATE UNIVERSITY: 9RESIDENT INSTRUCTION:

Hort 803 - Research Principles and Techniques in Horticulture.
Occasional guest lecturer

PUBLICATIONS:

Rollins, H.A. Jr. - 1978. Faculty Evaluation: A Department Chairman's Perception. HortScience 11(2): 143-144

UNIVERSITY, COLLEGE AND DEPARTMENT AND OTHER COMMITTEE ASSIGNMENTS:
(current or immediate past)

Greenhouse Vegetable Industry Committee - Chairman

Publications Committee

Research-Extension Analytical Laboratory (R.E.A.L.)

Processing Tomato Steering Committee

A.S.H.S. Annual Meeting Host Committee - General Chairman

O.S.U. Senate (1976-1979)

-2-

Executive Committee American Society for Horticultural Science

NON-UNIVERSITY PROFESSIONAL ACTIVITIES:- (Past 5 years)

C.S.R.S. Review, Department of Horticulture, Clemson University - 1975

C.S.R.S. Comprehensive Review, Department of Horticulture, Purdue University - 1977

C.S.R.S. Comprehensive Review, Pomology Department, Cornell University - 1977

C.S.R.S. Comprehensive Review, Department of Ornamental Horticulture, University of Florida (Review Team Chairman) - 1977

C.S.R.S. Comprehensive Review, Department of Horticulture, University of Illinois - 1978

S.E.A./C.R. Review, Department of Horticultural Science, North Carolina State University - 1978

S.E.A./C.R. Review, Department of Horticulture University of New Mexico - 1979

S.E.A./C.R. Review, Department of Horticulture, Pennsylvania State University - 1980

SCIENTIFIC AND PROFESSIONAL SOCIETIES:Honor Societies

Sigma XI
Phi Kappa Phi
Alpha Zeta
Phi Epsilon Phi
Pi Alpha Xi

Professional Societies

American Society for Horticultural Science
American Horticultural Society
American Institute of Biological Sciences
American Pomological Society
Virginia State Horticultural Society
Dwarf Fruit Tree Association
Council for Agricultural Sciences and Technology

HONORS AND AWARDS

| | |
|------|--|
| 1969 | Virginia Peach Industry Superior Service Award |
| 1973 | Fellow, American Society for Horticultural Science |
| 1974 | Dwarf Fruit Tree Association Award |

COMMENTS:

My principal responsibility in recent years has been the administration of the Department of Horticulture at O.S.U. and O.A.R.D.C. Because of the size of the department and the magnitude of the varied programs I consider it important to devote the majority of my energies to development and maintenance of strong and positive departmental programs.

NAME: John Warner Scott

DATE OF BIRTH: 9/27/48

TITLE: Assistant Professor

AGE: 31

ASSIGNMENT: O.A.R.D.C. 60% O.S.U. 40% O.C.E.S. 0%

EDUCATION:

| | | | |
|-------|------|---------------------------|----------------------|
| B.S. | 1970 | Michigan State University | Fisheries & Wildlife |
| M.S. | 1974 | Michigan State University | Horticulture |
| Ph.D. | 1978 | The Ohio State University | Horticulture |

POSITIONS HELD:

Assistant Professor of Horticulture - The Ohio State University
Research Associate - 3/4 time 1/77 to 3/78 - The Ohio State University - Dept.
of Horticulture - 1/2 time 3-75 to 12/76.
Research Technician 6/70-2/75 Michigan State University Horticulture Dept.
Part-time Research Assistant - Summers 1963-69, Joseph Harris Seed Co.
Rochester, NY

YEARS AT THE OHIO STATE UNIVERSITY: 1½ as Faculty, 3 as graduate student

RESIDENT INSTRUCTION:

Courses Taught Past Five Years:

Hort. 814 - Physiology of Horticultural Plants - 1 Week Genetics Segment
Au-77(8) Au-78(8), Au-79(14)
Hort. 694 - Group Studies - Field Trip to Fla. & classes - Sp-78(12)
Hort 551 - Fresh Market Vegetable Production - Au-78(20)
Hort 550 - Greenhouse Vegetable Crops - Wi-79(14)
Hort 601 - Horticultural Plant Breeding - Wi-79(9)
Hort 611 - Tropical and Subtropical Fruit and Vegetable Production - Vegetable
Segment - Au-79(6)

Undergraduate Advisees - Autumn 1979 - 2

Student Organizational Involvements - Advisor to University Fruit and Vegetable
Society

Graduate Study Involvements -

Number of Advisees Past Five Years: M.S. 2 Ph.D. 0

Number of Program Completions Past Five Years: M.S. 0 Ph.D. 0

RESEARCH ACTIVITIES:

Hatch 445 - Breeding and Genetics of Greenhouse Vegetable Crops (100%)

O.C.E.S. INVOLVEMENTS:

None

PUBLICATIONSJournal Articles (Referreed)

- Scott, J.W. and L.R. Baker 1975. Inheritance of sex expression from crosses of dioecious cucumber. J. Amer. Soc. Hort. Sci. 100:457-461.
- Scott, J.W. and L.R. Baker 1976. Sex expression of single and 3-way cross cucumber hybrids with androecious pollinators. HortScience 11:243:245.
- Rudich, J., L.R. Baker, J.W. Scott, and H.M. Sell 1976. Phenotypic stability and ethylene evolution in androecious cucumber. J. Amer. Soc. Hort. Sci. 101:48-51.
- Scott, J.W. and William L. George, Jr. 1980. Breeding and combining ability of heterostylous genotypes for hybrid seed production in Lycopersicon esculentum Mill. Euphytica 29:(In Press).
- Scott, J.W. and William L. George, Jr. 1980. Influence of environment and flower maturity on hybrid seed production of exerted stigma tomatoes crossed without emasculation. J. Amer. Soc. Hort. Sci. (In Press).

Technical Articles

- Baker, L.R., J.W. Scott and J.E. Wilson 1973. Seedless pickles - a new concept. Mich St. Ag. Exp. Sta. Res. Rep. 227
- Scott, J.W. 1977. Problems and complications of developing new greenhouse varieties. Proc. Canad and Midwest Greenhouse Veg Conf.
- Contributing Author to "Growing Greenhouse Tomatoes in Ohio", Coop. Exp. Bulletin. Revised 1979.
- Scott, J.W. 1979. Breeding Greenhouse Tomatoes for the 1980's. Proc. National Greenhouse Veg and Energy Conf. (In Press)

Other Published Materials

None

MAJOR "OUT OF STATE" SPEAKING ENGAGEMENTS:

1977. Problems and complications of developing new greenhouse varieties - Canadian & Midwest Greenhouse Vegetable Conference, Toronto, Canada

UNIVERSITY, COLLEGE AND DEPARTMENT COMMITTEES AND ACTIVITIES:DepartmentCollege

Growth Chamber 1978-present
Undergraduate 1978-present
Farm Science Review 1978-79
ASHS Local Arrangements 1978-79
Social Committee 1979

Teaching Committee - 1979-81

NON-UNIVERSITY PROFESSIONAL ACTIVITIES:

PAPERS PRESENTED AT PROFESSIONAL MEETINGS:

- Scott, J.W. and L.R. Baker 1973. The feasibility of using androecious pollinators for cucumber hybrid seed production. Amer. Soc. Hort. Sci in Raleigh, N.C.
- Scott, J.W. and L.R. Baker 1974. The inheritance of sex expression from crosses of dioecious cucumber. Amer. Soc. Hort. Sci. at Guelph, Canada.
- Scott, J.W. and L.R. Baker 1974. Update of research with androecious genotypes.at Pickle Packer Improvement Committee Meeting, Atlanta, Ga.
- Scott, J.W. and William L. George 1976. Some factors affecting yield in heterostylous tomato lines for hybrid seed production.at Tomato Breeders Roundtable, Indianapolis, IN.
- Scott, J.W. 1977. Fruiting of greenhouse tomatoes under minimal pollination and an update on heterostylous breeding.at Tomato Breeders Roundtable at Toronto, Canada.
- Scott, J.W. 1978. Pollen production and efficiency of pollination and fertilization for several inbred, hybrid, and heterostylous tomato lines.at Amer. Soc. Hort. Sci., Boston, MA.
- Scott, J.W. and William L. George, Jr. 1979. Influence of environment and flower maturity on hybrid seed production in exserted style tomatoes crossed without emusenlation. at Amer. Soc. Hort. Sci., Columbus, OH.
- Scott, J.W. 1979. Breeding greenhouse tomatoes for the 1980's.at National Greenhouse Vegetable and Energy Conference, Cleveland, OH.

SCIENTIFIC AND PROFESSIONAL SOCIETIES:

American Society of Horticultural Science
Tomato Genetics Cooperative
Cucurbit Genetics Cooperative

HONORS AND AWARDS:

Member Gamma Sigma Delta

GRANT OR GIFT SUPPORT RECEIVED:

COMMENTS:

I have played an active role planning and speaking at the 1976 and 1978 Greenhouse Vegetable schools at O.S.U. in Columbus and the 1977 and 1979 Greenhouse Vegetable Days at OARDC, Wooster. I also played an active role in the Horticulture Open Houses, 1975, 1977, and 1979 in Columbus. I conduct fresh market tomato trials each summer at the OSU horticulture farm. This includes Hort. Dept. series reports on results each year.

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NAME: Elton M. Smith, Jr.DATE OF BIRTH: March 2, 1936TITLE: ProfessorAGE: 43ASSIGNMENT: O.A.R.D.C. 25 O.S.U. O.C.E.S. 75EDUCATION:

| <u>Degree</u> | <u>Year</u> | <u>Institution</u> | <u>Major</u> |
|---------------|-------------|---------------------------|--------------|
| B.S. | 1958 | University of Connecticut | Horticulture |
| M.S. | 1964 | The Ohio State University | Horticulture |
| Ph.D. | 1967 | The Ohio State University | Horticulture |

POSITIONS HELD:

Professor of Horticulture, The Ohio State University ----- 1975-
 Associate Professor of Horticulture, The Ohio State University --- 1970-1975
 Assistant Professor of Horticulture, The Ohio State University --- 1967-1970
 Connecticut Cooperative Extension Service Agent ----- 1960-1962

YEARS AT THE OHIO STATE UNIVERSITY: 12RESIDENT INSTRUCTION:

Graduate Study Involvements

Number of Advisees M.S. - 1

Number of Completions M.S. - 1

RESEARCH ACTIVITIES:

State 451 "Optimum Nutritional Levels For Woody Ornamental Plants" (50%)
 Major objectives of determining optimum nutritional levels and solving
 habitual chlorosis problems.

State 482 "Container Production of Nursery Stock" (25%) Primarily working
 with overwintering practices of container grown and B & B stock.

Hatch 513 "Weed Control in Horticultural Crops" (25%) Emphasis placed upon
 obtaining labelling for landscape plants through work with IR 4

O.C.E.S. INVOLVEMENTS:

The major responsibility of this specialist is to provide educational information for production nurserymen, garden store operators, landscape and landscape maintenance personnel. Several methods are employed to provide the information including meetings, publications, demonstrations, correspondence and individual visits. Information follows concerning meetings, demonstrations and publications.

Industry Meetings

Annual Ohio Nursery Short Course (Coordinator)
Turf and Landscape Day (Committee Member and Participant)
Taxus Symposium (Coordinator)
Winter Storage Symposium (Coordinator)
Pesticide Operator and Applicator Schools (Resource person in 4/year)
Farm Science Review (Committee Member and Participant)
Turfgrass Conference and Show (Resource Person)
Horticulture Trade Meeting (Resource Person)
Area Extension Meetings (Resource Person in 4-6/year)
County Extension Meetings (Resource Person in 8-10/year)
Local Nursery-Landscape Association Meetings (Resource Person in 4-6/year)

Demonstration Research

Demonstration research has been established in nurseries or on The Ohio State University campus to solve applied problems relating to weed control, fertilizing practices, storage and irrigation. Tours or meetings are often used as a first follow-up for teaching purposes and then the demonstration is summarized and distributed to the industry.

A container nursery and landscape service has been established with a Demonstration Rapid-Adjustment Farm Family in eastern Ohio. The oldest son, a graduate of ATI is now giving leadership to the program began in 1975 and completed in 1979.

Extension Publications

Extension Bulletins

Smith, E. M. and T. A. Fretz. 1975-1979. Chemical Weed Control of Nursery and Landscape Plantings
Bosely, P. R., M. Martin and E. M. Smith. 1977. Constructing A Poly Covered House
Kennedy, L. W. and E. M. Smith. 1979. Care of Rose Bushes in Retail Outlets
Kennedy, L. W. and E. M. Smith. 1978. Care of Nursery Stock in Retail Outlets
Smith, E. M. and C. H. Gilliam. 1979. Fertilizing Landscape and Field Grown Nursery Crops
Smith, E. M. and K. W. Reisch. 1975. Landscape Trees For Ohio
Gilliam, C. H. and E. M. Smith. 1979. Fertilizing Container Grown Nursery Crops
Nichols, L., J. Brewer, C. Powell and E. M. Smith. 1979. The Flowering Crabapple---A Tree For All Seasons

Newsletters

Editor - Ohio Nursery Notes - Mailing list of 2300; 30 issues 1975-1979

Contributed Articles

1975 - Quackgrass, chickweed and dock control in nursery plantings, January-February
1975 - Quackgrass and annual weed control in an open field prior to planting, May-June

Newsletters (continued)

- 1975 - Mice are choosy - like Euonymus best!, July-August
- 1975 - Susceptibility of flowering crabapples to apple scab-1975, September-October
- 1975 - Kerb receives federal clearance for nursery stock, September-October
- 1975 - A comparison of winter storage structures, November-December
- 1976 - Symptoms, causes and prevention of salt damage to ornamentals, January-February
- 1976 - Controlling grasses in established ground covers-a research report, January-February
- 1976 - Minimum irrigation promotes Taxus growth, March-April
- 1976 - Sprout removal of packaged roses proves detrimental to growth, March-April
- 1976 - The effect of medias on growth of container plants, March-April
- 1976 - Crop damage varied-greatest in southern Ohio, May-June
- 1976 - Eastern white pine yellows, May-June
- 1976 - Controlling weeds in herbaceous perennials with Kerb, July-August
- 1976 - Susceptibility of flowering crabapples to apple scab, September-October
- 1976 - Capillary watering of nursery stock, November-December
- 1977 - Princep combinations effectively control annual weeds, January-February
- 1977 - Winter injury-an early appraisal, March-April
- 1977 - An evaluation of slow release fertilizers on container grown forsythia and cotoneaster, March-April
- 1977 - Summarizing the International Agricultural Plastics Conference, May-June
- 1977 - Winter injury of Taxus-1977, May-June
- 1977 - Winter injury of container grown ornamentals, May-June
- 1977 - The AAN summer convention in review, September-October
- 1977 - Susceptibility of flowering crabapples to apple scab-1977, November-December
- 1978 - Guthion registered in Ohio for Black Wine Weevil control, March-April
- 1978 - Sweet Gum chlorosis, May-June
- 1978 - Winter injury to Taxus at the Secrest Arboretum (co-author), July-August
- 1978 - Juniperus, Taxus and Thuja tolerance to Simazine, July-August
- 1978 - Pine bark as a container medium (co-author), November-December
- 1979 - Comparing Ronstar with Rydex and Goal in controlling weeds in liner stock, January-February
- 1979 - An evaluation of poly bags for container grown nursery stock, March-April
- 1979 - A review of some glyphosate studies conducted during the past several years in Ohio, May-June
- 1979 - Soluble salts, September-October
- 1979 - Susceptibility of flowering crabapples to apple scab-1979, September-October
- 1979 - Rodent control, November-December

Fact Sheets

Editor of Landscape Facts. The 1979 distribution was 1.5 million sheets with 1700 written requests. Currently 220 titles in the series.

Contributed Titles

1975 - Birches in the landscape
1975 - Cold frame, hot bed construction and use
1975 - Pin oak chlorosis
1975 - Vines in the landscape
1977 - Buckeye and horsechestnuts in the landscape
1978 - Chemical control of weeds in the flower garden
1978 - Azaleas and rhododendrons in the landscape
1978 - Landscape to conserve energy
1979 - Arborvitae for the home landscape
1979 - Landscape plants for use in borders and screens

Edited, in addition, to the newsletter and fact sheets:

Proceedings of the International Taxus Symposium - October, 1975
Proceedings of the Woody Ornamentals Winter Storage Symposium -
December, 1977

Extension News Releases

Resource specialist for numerous releases during the past 5 years.

PUBLICATIONS:

Journal Articles

- Smith, Elton M. 1975. Tree stress from salts and herbicides. Jour. of Arbor. 1(11): 201
- Smith, Elton M. and C. D. Mitchell. 1977. Eastern White Pine iron deficiency. Jour. of Arbor. 3(7): 129-130
- Smith, Elton M. and C. D. Mitchell. 1977. Manganese deficiency of Red Maple. Jour. of Arbor. 3(5): 87-88
- Smith, E. M., C. D. Mitchell, J. Aylsworth and R. Raker. 1977. Evaluation of poly film coverings in overwintering woody ornamentals: Part I. Plant Quality. Orn. Plants - 1976 A Sum. of Res. OARDC, Res. Cir. 226, pp. 3-6
- Smith, E. M. and C. D. Mitchell. 1977. Evaluation of poly film coverings in overwintering woody ornamentals: Part II. Film Characteristics. Orn. Plants - 1976 A Sum. of Res. OARDC, Res. Cir. 226, pp. 7-10
- Smith, E. M., C. D. Mitchell, J. Aylsworth and R. Raker. 1977. Evaluation of poly film coverings in overwintering woody ornamentals: Part III. Protecting Plants Within Structures. Orn. Plants - 1976 A Sum. of Res. OARDC, Res. Cir. 226, pp. 11-12

Journal Articles (continued)

- Smith, E. M. and C. D. Mitchell. 1977. An evaluation of structures in overwintering woody ornamentals. Orn. Plants-1976 A Sum. of Res. OARDC Res. Cir. 226, pp. 31-34
- Smith, E. M., A. L. Parker and H. D. Tripple. 1977. Phytotoxicity of glyphosate on ornamentals trees: A two year evaluation. Orn. Plants-1976 A Sum. of Res. OARDC Res. Cir. 226, pp. 35-38
- Mitchell, C. D. and E. M. Smith. 1977. Effect of stock plant nitrogen fertilization on the rooting response of Taxus cuspidata 'Thayer'. Orn. Plants-1976 A Sum. of Res. OARDC Res. Cir. 226, pp. 47
- Smith, Elton M., Gary A. Theil and Cynthia D. Mitchell. 1978. An investigation into the cause of conifer damage in nursery storage. Orn. Plants-1978 A Sum. of Res. OARDC Res. Cir. 236, pp. 21-23
- Smith, Elton M. 1978. Foliar analysis survey of woody ornamentals. Orn. Plants-1978 A Sum. of Res. OARDC Res. Cir. 236, pp. 30-34
- Smith, Elton M., Cynthia D. Mitchell and Joseph Rimelspach. 1978. Changes in mulch and soil nitrate levels following nitrogen fertilization. Orn. Plants-1978 A Sum. of Res. OARDC Res. Cir. 236 pp. 35-37
- Smith, Elton M. and Sharon A. Treaster. 1978. Phytotoxicity of glyphosate on landscape plants. Orn. Plants-1978. A Sum. of Res. OARDC Res. Cir. 236 pp. 53-55
- Hahn, David E., Jerry L. Robertson and Elton M. Smith. 1979. An analysis of production costs for containerized nursery products. Orn. Plants-1979 A Sum. of Res. OARDC Res. Cir. 246 pp. 3-7
- Rizzo, Christopher F., Elton M. Smith and Thomas A. Fretz. 1979. An evaluation of microfoam on plant quality following overwintering of container-grown woody ornamentals. Orn. Plants-1979 A Sum. of Res. OARDC Res. Cir. 246 pp. 18-20
- Rizzo, Christopher F., Elton M. Smith and Thomas A. Fretz. 1979. Evaluation of water barrels as a heat source in woody ornamental winter storage structures. Orn. Plants-1979 A Sum. of Res. OARDC Res. Cir. 246 pp. 21-24
- Smith, Elton M. and Sharon A. Treaster. 1979. Controlling winter annual and perennial weeds in field-grown Cotoneaster divaricata. Orn. Plants-1979 A Sum. of Res. OARDC Res. Cir. 246 pp. 31-32.
- Smith, Elton M. 1979. A 10 year evaluation of flowering crabapple susceptibility to apple scab in Ohio. Orn. Plants-1979 A Sum. of Res. OARDC Res. Cir. 246 pp. 36-39
- Rizzo, Christopher F., Elton M. Smith and Thomas A. Fretz. 1979. An evaluation of fungicides on container grown woody ornamentals during winter storage under microfoam. Orn. Plants-1979 A Sum. of Res. OARDC Res. Cir. 246 pp. 44-45

Technical Articles

- Smith, Elton M. 1975. Controlling climbing perennial weeds in the nursery. Res. Rpt. No. Cent. Weed Cont. Conf. 29: 61-62
- Smith, Elton M. 1975. Downy brome grass and winter weed control in woody ornamentals. Res. Rpt. No. Cent. Weed Cont. Conf. 29:66

Technical Articles (continued)

- Smith, Elton M. 1975. Existing quackgrass and winter weed control in woody ornamentals. Res. Rpt. No. Cent. Weed Cont. Conf. 29: 63-64
- Smith, Elton M. 1975. Glyphosate injury on landscape trees. No. Cent. Weed Cont. Conf. 29:67
- Smith, Elton M. and C. D. Mitchell. 1976. Weed control in ornamentals with simazine combinations. Res. Rpt. No. Cent. Weed Cont. Conf. 33:83-85
- Smith, Elton M. and C. D. Mitchell. 1976. Weed control in mulched roses. No. Cent. Weed Cont. Conf. 33:86-88
- Smith, Elton M. 1977. Tolerance of Junipers, Taxus and Thuja to simazine. Res. Rpt. No. Cent. Weed Cont. Conf. 34:52-53
- Smith, Elton M. 1977. An evaluation of DCPA and DCPA-Simazine combinations in container-grown nursery stock. Res. Rpt. No. Cent. Weed Cont. Conf. 34: 47-49
- Smith, Elton M. 1977. An evaluation of oxyfluorfen and methazole in container grown nursery. Res. Rpt. No. Cent. Weed Cont. Conf. 34: 50-51
- Smith, Elton M. 1978. An evaluation of prodiamine, oxadiazon, and oxyfluorfen in nursery lining-out stock. Res. Rpt. No. Cent. Weed Cont. Conf. 35: 81-82
- Smith, Elton M. 1979. An evaluation of alachlor and metolachlor in nursery lining-out stock. Res. Rpt. No. Cent. Weed Cont. Conf. 36: In press
- Smith, Elton M. 1975. Controlling quackgrass in the nursery. Int. Plant Propagators Comb. Proc. 25: 374-376
- Smith, Elton M. 1976. Leaf analysis-A growth indicator. Int. Plant Propagators Comb. Proc. 26: 190-192
- Smith, Elton M. 1977. Poly coverings. Proc. Woody Orn. Winter Storage Symp. OCES pp. 40-44
- Smith, Elton M. 1977. Preventing winter injury with anti-transpirants. Proc. Woody Orn. Winter Storage Symp. OCES pp. 54-57
- Reisch, Kenneth and Elton M. Smith. 1976. Planting trees and shrubs. Brooklyn Botanic Garden Record 32(1): 72-75
- Smith, Elton M. 1979. Chlorosis - What is it and what can we do about it? Brooklyn Botanic Garden Record 35(2): 15-19
- Smith, Elton M. 1978. Capillary watering of outdoor container grown nursery stock. Proc. Nat. Agr. Plastics Conf. 1978 pp. 137-142
- Smith, Elton M. 1977. Quality of woody ornamentals following storage under poly films. Proc. Int. Agr. Plas. Congress. 1977. pp. 240-245

Other Published Materials

- Smith, Elton M. 1975. The effect of fertilizer on trunk splitting of Littleleaf Linden. Turf and Landscape Day-1975. OARDC pp. 23-24
- Smith, Elton M. 1975. Fertilizing lining-out and field grown shrubs and evergreens. Turf and Landscape Day-1975 OARDC pp. 25-26
- Smith, Elton M. 1975. Preventing Pin Oak chlorosis with trunk implantations of encapsulated iron. Turf and Landscape Day-1975 OARDC pp. 27-28

Other Published Materials (continued)

- Smith, Elton M. 1975. New herbicide controls grasses in established ground covers and perennials. Turf and Landscape Day-1975 OARDC pp. 29-32
- Smith, Elton M. 1975. Herbicide tolerance of container grown ornamentals. Turf and Landscape Day-1975 OARDC pp. 33-34
- Smith, Elton M. 1975. Controlling downy brome grass. Turf and Landscape Day-1975 OARDC pp. 35-36
- Smith, Elton M. 1975. Controlling existing quackgrass in woody ornamentals. Turf and Landscape Day-1975 OARDC pp. 37-38
- Smith, Elton M. 1977. Fertilizing plants in the landscape. Turf and Landscape Day-1977 OARDC pp. 1-2
- Smith, Elton M. 1978. Weed control in the flower garden. Turf and Landscape Day-1978 OARDC pp. 12-15
- Smith, Elton M. 1979. Fertilizing woody ornamentals in the landscape. Turf and Landscape Day-1979 OARDC pp. 14-16
- Smith, Elton M. and Thomas A. Fretz. 1976. A comparison of winter storage structures. So. Florist and Nurseryman. 88(47): 18-19
- Smith, Elton M. and C. D. Mitchell. 1976. Sprout removal detrimental to rose growth. So. Florist and Nurseryman 89(1): 26,33
- Smith, Elton M. and Sharon A. Treaster. 1979. Poly bag containers for nursery stock. So. Florist and Nurseryman 92(1): 30
- Smith, Elton M. 1979. Winter storage of ornamentals. So. Florist and Nurseryman 92(2): 17,37,39
- Smith, Elton M. 1976. Overwintering nursery stock with minimum heat. Conn. Greenhouse Newsletter Dec. pp. 6-8
- Smith, Elton. 1975. Preventing Pin Oak Chlorosis. Woodlands Conservation in Action. 13(1): 16-17
- Smith, Elton M. and C. D. Mitchell. 1976. The effect of medias on growth of container plants. Landscape 2(9): 14-15
- Smith, Elton. 1979. Tree macro and micro nutrition. The Buckeye Arborist 10(5): 7
- Smith, Elton M. 1978. Species, soil, location affect tree fertilization. Weeds, Trees and Turf. 17(10): 16-17, 20
- Smith, Elton M. and C. D. Mitchell. 1977. Chlorosis of red and silver maple. Weeds, Trees and Turf 16(7): 32, 36
- Smith, Elton M. 1975. Nutrition research-Fertilizing field grown evergreens and shrubs. Amer. Nurseryman 142(10): 10,44
- Smith, Elton M. 1975. Nutrition research-Growth responses of fertilized trees. Amer. Nurseryman 142(11): 13,50,52
- Smith, Elton M. 1975. Nutrition research-Tree responses to fertilizer treatments. Amer. Nurseryman 142(12): 12,49,50
- Smith, Elton M. 1976. Nutrition research-Manganese deficiency-common in Maples. Amer. Nurseryman 143(1): 11,131,132
- Smith, Elton M. 1976. Nutrition research: Foliar analysis of woody ornamentals. Amer. Nurseryman 143(2): 13,14
- Smith, Elton M. 1976. Nutrition research: Pin Oak Chlorosis. Amer. Nurseryman 143(3): 15,44
- Smith, Elton M. 1978. Juniper growth in hardwood and pine bark mixtures. Amer. Nurseryman 148(1): 27,232,234
- Smith, Elton M. 1979. Fertilization practices for field grown nursery stock. Amer. Nurseryman 149(9): 9,62,65
- Smith, Elton M. 1979. Prevent winter damage by helping plants become acclimated. Amer. Nurseryman 150(4): 11,76,77

MAJOR "OUT OF STATE" SPEAKING ENGAGEMENTS:1976

October - Massachusetts Nursery and Greenhouse Growers, Massachusetts
November - Western Pennsylvania Arborists Association, Pennsylvania

1977

January - Michigan Nursery Meeting, Michigan
January - Maintenance School, New York
February - Nebraska Landscape Meeting, Nebraska
March - Indiana Grounds Clinic, Indiana
October - New England Chapter, I.S.A., New Hampshire
October - Michigan Landscape Association Meeting, Michigan

1978

January - North Carolina Nurserymen Association Meeting, North Carolina
January - Kentucky Arborists Meeting, Kentucky
February - Extension Service School, Nebraska
February - Pennsylvania Nursery Short Course, Pennsylvania
August - Michigan Nursery Meeting, Michigan
November - Massachusetts Nurserymen Short Course, Massachusetts

1979

January - Michigan Nurserymen Association Meeting, Michigan
February - Ontario Nurserymen Association Meeting, Toronto, Canada
February - Kentucky Arborists Meeting, Kentucky
February - American Association of Nurserymen Seminar, Kentucky
July - Dow Gardens Seminar, Michigan
November - Southern New Jersey Nurserymen Meeting, New Jersey
November - North Carolina Nurserymen Meeting, North Carolina

UNIVERSITY, COLLEGE AND DEPARTMENT COMMITTEES AND ACTIVITIES:College

Mass Media and College Exhibits Committee (Chairman - 1976)
Soil Test Advisory Committee
Turf and Landscape Day Committee
Pesticide Assessment Committee

Department

Extension Committee (Chairman - 1978)
Farm Science Review Committee
Promotion and Tenure Committee
United Way Committee
A.S.H.S. Tour Committee (Chairman)
Farm Committee
Chadwick Arboretum Committee

NON-UNIVERSITY PROFESSIONAL ACTIVITIES:

Eastern Region, International Plant Propagators Society
Education Committee (Chairman)
Necrology Committee (Chairman)
Student Awards Committee
Site Committee (Chairman)
Exhibits Committee

International Agricultural Plastics Conference
Site Committee

Judge - All American Rose Selections

Ohio Nurserymen's Association
Board of Directors
Program Committee (Chairman)
Certification Committee (Coordinator)

PAPERS PRESENTED AT PROFESSIONAL MEETINGS:1975

December - Eastern Region, International Plant Propagators Society, Florida

1976

August - Eastern Region, International Plant Propagators Society, New Jersey

1977

April - National Agricultural Plastics Conference, California
December - Eastern Region, International Plant Propagators Society, Ohio

1978

July - American Society for Horticultural Science, Massachusetts
August - International Society of Arboriculture, Toronto, Canada
October - National Symposium on Systemic Chemicals, Michigan
November - National Agricultural Plastics Conference, Florida
December - National Arborist Association Seminar, Illinois

1979

August - American Society for Horticultural Science, Ohio
December - Eastern Region, International Plant Propagators Society, Missouri

SCIENTIFIC AND PROFESSIONAL SOCIETIES:

American Society for Horticultural Science
 American Horticultural Society
 International Plant Propagators Society
 International Society of Arboriculture
 International Agricultural Plastics Society

GRANT OR GIFT SUPPORT RECEIVED:

| <u>Year</u> | <u>Source</u> | <u>Purpose</u> | <u>Amount</u> |
|-------------|----------------------|-----------------------|---------------|
| 1975 | Rhodia Chemical | Weed Control | \$ 200.00 |
| 1975 | The Andersons | Mulching | 555.00 |
| 1975-77 | Creative Sales, Inc. | Nutrition | 1,400.00 |
| 1975-79 | Rohm & Haas Chemical | Weed Control | 1,850.00 |
| 1976 | J. A. Hartman Corp. | Anti-transpirants | 500.00 |
| 1976 | Kay Fries, Inc. | Anti-transpirants | 500.00 |
| 1976-77 | Diamond Shamrock | Weed Control | 1,000.00 |
| 1976-79 | Monsanto | Weed Control | 1,245.00 |
| 1976-78 | ChemLawn | Nutrition | 1,000.00 |
| 1977 | Velsicol Chemical | Weed Control | 500.00 |
| 1978 | Siera Chem. Company | Nutrition | 500.00 |
| 1978-79 | IR-4 | Weed Control | 4,270.00 |
| 1977-79 | H.R.I. | Nutrition and storage | 1,500.00 |

Name: George Staby

Date of Birth: April 1, 1944

Title: Professor

Age: 35

Assignment: O.A.R.D.C. 75%, O.S.U. 25%, O.C.E.S. 0%

Education:

| <u>Degree</u> | <u>Year</u> | <u>Institution</u> | <u>Major</u> |
|---------------|-------------|---------------------------|---------------|
| B.S. | 1966 | University of Connecticut | Plant Science |
| M.S. | 1967 | Michigan State University | Horticulture |
| Ph.D. | 1970 | Michigan State University | Horticulture |

Positions Held:

Professor
Department of Horticulture
Ohio State University
Columbus, Ohio (1970 to present)

Visiting Professor (Sabbatical)
Department of Environmental Horticulture
University of California
Davis, California (1977-78)

Graduate Research Fellow
Department of Horticulture
Michigan State University
East Lansing, Michigan (1966-70)

Technician
Department of Plant Science
University of Connecticut
Storrs, Connecticut (1963-1966)

Gardener
Sherman Prescott Estate
Greenwich, Connecticut (1959-1966)

Years at The Ohio State University: 9

Resident Instruction:

Courses Taught Past Five Years

Hort 431 - Herbaceous Perennials and Annuals, Sp-75 (125), Sp-76 (136),
Sp-77 (96), Sp-78 (76), Sp-79 (77)

Hort 509(609) - Postharvest Care and Handling of Horticultural Crops,
A-75 (32), A-76 (23), A-77 (40), A-78 (44), A-79 (43)

Hort 815 - Postharvest Physiology, A-77 (8)

Undergraduate Advisees - Autumn 1979 - 0

Student Organizational Involvements
Advisor to Floriculture Internship Program

Graduate Study Involvements

Number of Advisees Past Five Years

M.S. 6

Ph.D. 3

Number of Program Completions Past Five Years

M.S. 5

Ph.D. 1

Research Activities:

Hatch - 512 - "Postharvest Physiology of Horticultural Crops." (40%)

State - 6-180 - "Postharvest Physiology of Floricultural Crops." (40%)

O.C.E.S. Involvements:

While having an extension appointment, a good share of my time is involved with a national educational program on the proper care and handling of floral crops. Entitled the "Chain of Life", this project originated under my direction at O.S.U. and subsequently was signed over to the Society of American Florist.

Publications:

Journal Articles (Referred)

Chan, M. and G. L. Staby. 1974. Effects of agricultural hydrogel concentrate (viterra) on the growth and development of chrysanthemum, poinsettias and tomatoes. HortScience 9(3):202.

Cunningham, G. L. and G. L. Staby. 1974. Leaf and Fruit abscission of potted lime plants (Citrus aurantifolia) exposed to ethylene. HortScience 9(3):173.

Gladon, R. and G. L. Staby. 1974. Opening of bud-cut chrysanthemums with sucrose and 8-Hydroxyquinoline Citrate. HortScience 9(3):230.

Cunningham, J. L. and G. L. Staby. 1975. Ethylene and defoliation of ornamental lime plants in transit. HortScience 10:(174)

Chan, M. and G. L. Staby. 1975. Foliar element levels of chrysanthemums and tomatoe grown in insolubilized poly (ethylene oxide) amended media. HortScience 10:607.

Gladon, Richard J. and G. L. Staby. 1976. Opening of immature chrysanthemums with sucrose and 8-hydroxyquinoline citrate. HortScience 11(3):206-208.

Robertson, J. L. and G. L. Staby. 1976. Economic feasibility of once-over bud harvest of standard chrysanthemums. HortScience 11(2):159.

- Staby, G. L., B. A. Eisenberg, T. A. Fretz, and T. D. Erwin. 1976. Low pressure storage of bud-harvested Chrysanthemum morifolium, Ramat. and rooted and unrooted Pelargonium hortorum, Bailey. HortScience 11:296.
- Robertson, Jerry L. and George L. Staby. 1976. Economic feasibility of bud harvest and transportation of standard chrysanthemums. HortScience 11:296.
- Rule, D. E. and G. L. Staby. 1976. Growth and development of Lycopersicon esculentum Mill. and Brassica actinophylla under reduced pressures and modified atmospheric composition. HortScience 11:299.
- Gladon, R. J. and G. L. Staby. 1976. Detection of carbon monoxide emanated from plants. HortScience 11:311.
- Staby, G. L., T. D. Erwin, and D. E. Rule. 1976. The post-harvest quality of Dianthus caryophyllus, L. as influenced by potassium permanganate and activated carbon scrubbers. HortScience 11:319-320.
- Eisenberg, B. A., G. L. Staby and T. A. Fretz. 1977. Low pressure and common cold storage of rooted and unrooted ornamental cuttings. HortScience 12(4):396.
- Rule, D. E. and G. L. Staby. 1977. Germination and growth of Lycopersicon esculentum, mill. 'C-28' (tomato) under low pressure and controlled atmospheres. HortScience 12(4):413.
- Staby, G. L. and T. D. Erwin. 1978. Water quality, preservative, grower source and chrysanthemum flower vase-life. HortScience 13(2):185-187.
- Staby, G. L. and A. M. Kofranek. 1978. Production conditions as they affect harvest and postharvest characteristics of poinsettias. HortScience 13(3):346.
- Staby, G. L., J. F. Thompson and A. M. Kofranek. 1978. Postharvest characteristics of poinsettias as influenced by handling and storage procedures. J. Amer. Soc. Hort. Sci. 103(6):712-715.
- Staby, G. L., J. F. Thompson and A. M. Kofranek. 1978. Precooling potted chrysanthemums. HortScience 13(3):346.
- Gladon, R. J. and G. L. Staby. 1978. Carbon monoxide formation in tomatoes. J. Amer. Soc. Hort. Sci. 104(1):74-76.
- Eisenberg, B. A., G. L. Staby and T. A. Fretz. 1978. Low pressure and refrigerated storage of rooted and unrooted ornamental cuttings. J. Amer. Soc. Hort. Sci. 103(6):732-737.
- Bridgen, M. P. and G. L. Staby. The storage of tobacco, rose and chrysanthemum tissue cultures under modified and low pressures. (in press).
- Bridgen, M. P. and G. L. Staby. 1979. Low pressure and controlled atmosphere storage of tissue cultured nicotiana tabacum 'Wisconsin 38'. HortScience 14(3):432.
- Staby, G. L., M. S. Cunningham, B. A. Eisenberg, M. P. Bridgen, and J. W. Kelly. 1979. Low pressure storage of carnations and roses. HortScience 14(3):446.

Staby, G. L., and A. M. Kofranek. 1979. Production conditions as they affect harvest and postharvest characteristics of poinsettias. J. Amer. Soc. Hor. Sci. 104(1):88-92.

Staby, G., B. Eisenberg, J. Kelly, M. Bridgen, M. Cunningham. 1979. Petiole ethylene levels and epinastic petioles of 'Annette Hegg Dark Red' and 'Improved Rochford' poinsettias as affected by sleeving and storage treatments. HortScience. 14(3):445.

Staby, G. L., M. S. Cunningham, B. A. Eisenberg, M. P. Bridgen, and J. W. Kelly. 1979. Protecting harvested carnation flowers with silver salts of sodiumthiosulfate. HortScience 14(3):445.

Eisenberg, B. A. and G. L. Staby. 1979. The relative contribution of the alternate and cytochrome oxidase pathways of respiration during senescent processes that occur in *Dianthus caryophyllus* (L.) 'White Sim'. HortScience 14(3):466.

Technical Articles

Kiplinger, D. C., Harry K. Tayama and George Staby. 1974. Cooling Techniques and A-Rest on Arai Lilies. Ohio Florists' Assn., Bulletin No. 533.

Kiplinger, D. C. and Harry K. Tayama and George Staby. 1974. Effect of High Intensity Discharge Light on Pompon and Pot Chrysanthemums - A Preliminary Report. Ohio Florists' Assn., Bulletin N. 539.

Tsujita, M. J., D. C. Kiplinger, Harry K. Tayama and George Staby. 1974. The effects of Nitrogen Source, Temperature and Light Intensity on Standard Chrysanthemums. Ohio Florists' Assn., Bulletin No. 541.

Kiplinger, D. C. and Harry K. Tayama and George Staby. 1975. A-Rest on Ace and Arai Lilies. Ohio Florists' Assn., Bulletin No. 543.

Kiplinger, D. C. and Harry K. Tayama and George Staby. 1975. A-Rest on Mid-Century Hybrid Lilies. Ohio Florists' Assn., Bulletin No. 543.

Kiplinger, D. C., Harry K. Tayama and George Staby. 1975. Watering Frequency as it Affects Flower Bud Count on Easter Lilies. Ohio Florists' Assn., Bulletin No. 543.

Kiplinger, D. C., Harry K. Tayama and George Staby. 1975. A-Rest on a Rubrum - Type Garden Lily. Ohio Florists' Assn., Bulletin No. 543.

Robertson, J. L., H. K. Tayama, Hugh Poole, George Staby and D. C. Kiplinger. 1975. U.S.D.A. and Census Bureau Surveys. Ohio Florists' Assn., Bulletin No. 544.

Tsujita, M. J., D. C. Kiplinger, H. K. Tayama and George Staby. 1975. The Effects of Nitrogen Source and Growing Media on the Growth and Keeping Quality of Mid-Winter Standard Chrysanthemum. Ohio Florists' Assn., Bulletin No. 545.

Tsujita, M. J., D. C. Kiplinger, H. K. Tayama and George Staby. 1975. The Effects of Ammonium Versus Nitrate Nitrogen on the Growth, Flowering, Quality, and Chemical Composition of Standard Chrysanthemums Growth

in Mid-Winter. Ohio Florists' Assn. Bul. No. 551.

Eisenberg, B. A., G. L. Staby, T. A. Fretz, T. Erwin. 1976. Low pressure storage of rooted and unrooted geraniums. Comb. Proc. Int. Plant Prop. Soc. 26:215-219.

Robertson, J. L. and G. L. Staby. 1976. Feasibility of once-over bud harvest of chrysanthemums. Ohio Report on Research and Develop., 61(3):39-39.

Robertson, J. L. and G. L. Staby. May, 1976. Economic feasibility of once-over bud harvest of standard chrysanthemums. Ohio Flor. Assn. Bul. No. 559.

Robertson, J. L. and G. L. Staby. 1976. Economic feasibility of once-over bud harvest of standard chrysanthemums. Florists' Review. 158 (4094):33, 80-82.

Staby, George, J. Bridenbaugh, and J. L. Robertson. 1976. Treated properly, fresh flowers and plants last longer, sell better. Florists' Review, March 11, p. 33.

Staby, G. L. May 22, 1976. Let's Face REality. Flower News. 30(21):1,8.

Staby, G. L. and J. L. Robertson. 1976. Better product care and handling --Let's put first things first in floriculture. Teleflora Spirit, 46(5):24.

Staby, G. L. and J. L. Robertson. 1976. Our flowers are dying. What should florists do about it! TeleFlora Spirit 46(6):24.

Staby, G. L. 1976. Sell more flowers? Then, learn how to make them last longer! Florists' Review 158(4097):31.

Staby, G. L., J. Bridenbaugh, and J. L. Robertson. 1976. How to flowers and plants. Southern Florist and Nurseryman, April 23, 1976, pp. 12-13.

Staby, G. L. 1976. Coupons for dollars in the next decade. Flower News 30(45):1,3,20.

Staby, G. L. and J. L. Robertson. 1976. Coupons for dollars. Flower News 30(47):1,3,6.

Staby, G. L. 1976. Hypobaric storage-an overview. Comb. Proc. Intl. Plant Prop. Soc. 26:211-215.

Staby, G. L. 1976. Toward higher quality flowers - the chain of life. Asoc. Colombiana de Export. de Flores. 17pp.

Staby, G., J. Robertson. 1976. Test your floral knowledge. The PMA Report. 8(15):4.

Staby, G. L., J. L. Robertson. 1976. Coupons for dollars. Flower News 30(50):9, 13.

Staby, G. 1976. Researcher believes some plant deaths can be traced to accepted practices. Florist 9(11):98-99.

- Staby, G. 1976. Proper care of cut flowers. Gladiograms 24:14.
- Eisenberg, B. A., G. L. Staby and T. A. Fretz. 1977. Low pressure vs. common cold storage of geraniums. Res. Cir. 226 of the Ohio Agr. Res. Dev. Ctr. pp17-19.
- Robertson, J. L. and G. L. Staby. 1977. Chain of life...your link to higher profits. Florafacts. Feb. 1977:17-23.
- Robertson, J. L., G. L. Staby. 1977. Chain of life. Flor. Rev. 159(4131):77-78.
- Rule, D. E. and G. L. Staby. 1977. Choose top 10 for mix, consumer satisfaction. Flor. Rev. 161(4173):24-29.
- Staby, G. L. and J. L. Robertson. 1977. Coupons for dollars. Flower News. 31(3):33-35,37.
- Staby, G. L., J. L. Robertson. 1977. Coupons for dollars - effective buying. Flower News 31(2):49.
- Staby, G. L., C. A. Conover, J. J. Hanan, A. Kofranek, F. J. Marousky, H. P. Rasmussen, J. L. Robertson, and J. Sacalis. 1977. Chain of life - carnations. Flor. Rev. 160(4157):33, 48-51.
- Staby, G. L. 1977. Controlled atmosphere and low pressure storage of floral crops - overview. Controlled atmosphere for the storage and transport of perishable commodities. Second Natl. Controlled Atmo. Res. Conf. 28:60-70.
- Staby, G. L. and T. D. Erwin. 1977. Floral preservatives - it's time to clean the files. Flor. Rev. 159(4129):35, 79-82.
- Staby, G. L. and T. D. Erwin. 1977. It's time to clean the file on floral preservatives. Flor. Rev. 161(4161):30.
- Staby, G. L. and T. D. Erwin. 1977. The storage of Easter lilies. Flor. Rev. 161(4162):38.
- Staby, G. L., C. A. Conover, J. Hanan, A. Kofranek, P. Rasmussen, J. Robertson, D. Rule and J. Sacalis. 1977. Prolonging shelf-life of carnations. Flower News. 31(50);20,22,24-26,93,95-96.
- Eisenberg, B. A., T. A. Fretz and G. L. Staby. 1978. A comparison of low pressure and common cold storage of unrooted woody ornamental cuttings. O.A.R.D.C. Cir. 236:24-29.
- Staby, G. L., T. D. Erwin, and A. A. De Hertogh. 1978. Cut flower life of tulips as influenced by preservative and water quality. Flor. Rev. 162(4200):22-23.
- Staby, G. L. and J. F. Thompson. 1978. An alternative method to reduce ethylene levels in coolers. Flor. Rev. 163(4229):30-31,71.

Staby, G. L., C. Conover, D. Durkin, D. Farnham, J. Hanan, A. Heyl, A. Kofranek, F. Marousky, P. Rasmussen, J. Robertson, D. Rule, and R. P. Thompson. 1978. Chain of life: improving the quality and lasting attributes of roses. Flor. Rev. 162(4200):16,57-59.

Tayama, H. K., D. C. Kiplinger, W. M. Brooks, G. L. Staby, C. C. Powell, R. K. Lindquist, H. A. Poole, J. D. Farley and J. L. Robertson. 1975. 1976, 1977, 1978. Tips on growing ornamental and vegetable bedding plants. Coop. Ext. Serv., The Ohio State Univ. Bulletin 265.

Other Published Materials

Staby, G. L., J. L. Robertson, D. C. Kiplinger, and C. A. Conover. 1976. Chain of Life. Proceedings of the national floricultural conference on commodity handling. Hort. Ser. Oh. Ag. Res. Dev. Ctr. 432:71 pp.

Robertson, J. L. and G. L. Staby. 1977. The United States Floriculture Industry: a comprehensive report and analysis. Produce Research and Information Services, Inc.

Sullivan, G. H., J. L. Robertson, and G. L. Staby. Business Management for Retail Florists. (In press).

Major "Out of State" Speaking Engagements:

Records of specific out-of-state speaking engagements by dates have not been maintained. However, the following will briefly summarize some speaking activities. Most all talks have been related to proper postharvest care and handling of floral crops.

1. Produce Marketing Association National Convention, Phoenix, AZ.
2. Produce Marketing Association - Food Marketing Institute, Chicago, IL.
3. Topco Associates, Phoenix, AZ.
4. Food Marketing Institute, Phoenix, AZ.
5. National Floricultural Conference on Commodity, Chicago, IL.
6. Transport One, Society of American Florists, Boston, MA.
7. Society of American Florists National Convention, Boston, MA.
8. Society of American Florists National Convention, Salt Lake City, UT.
9. Society of American Florists National Convention, Detroit, MI.
10. Florists Clearinghouse Network National Convention, Ft. Lauderdale, FL.
11. Goldmedal National Convention, Montgomery, AL.
12. American Institute of Floral Designers National Convention, Long Beach, CA.
13. American Institute of Floral Designers National Convention, Starkville, MS.
14. Flowers Canada National Convention, Toronto, Ontario.
15. Flowers Canada National Convention, Vancouver, British Columbia.
16. Aalsmeer Flower Auction, Aalsmeer, The Netherlands.
17. Flower Exporters Association of Colombia, Bogata, Colombia.
18. International Symposium on Postharvest Floral Care, Littlehampton, England.
19. Northwest Floral Association, Seattle, WA.
20. Northern California Flower Growers Association, (4 times) San Francisco, CA.
21. Northern California Flower Shippers Association (3 times), Sunnyvale, CA.
22. Southern California Flower Growers Association, (2 times), Anaheim, CA.
23. Greater Milwaukee Floral Association, Milwaukee, WI.
24. Felly Flower Seminar, (4 times), Madison, WI.
25. Scott Lad District Meetings (4 times), La Porte, IN.

26. International Symposium on Storage of Horticultural Commodities, E. Lansing, MI.
27. Missouri Flower Growers Convention, St. Louis, MO.
28. Flower Pot Symposium, Portsmouth, NH.
29. New York Flower Club, Albany, NY.
30. Cornell University, Ithaca, NY.
31. North Carolina State University, Raleigh, NC (4 times).
32. University of California, Davis, CA (5 times).
33. Minnesota Flower Growers Convention, St. Paul, MN.
34. Teleflora National Convention, Miami, FL.
35. Telefloral National Convention, St. Louis, MO.
36. Georgia State Growers Meetings, Tifton, GA.
37. Georgia's Teleflora Meetings, Columbus, GA.
38. Florida Flower Growers' Association Annual Convention, Palm Beach, FL.
39. Polychrones Design School, Alexandria, VA.
40. Colorado Flower Growers Annual Meetings, Golden, CO.
41. College of Knowledge, Denver, CO.
42. College of Knowledge, St. Louis, MO.
43. Nemokan, Topeka, KS.
44. Nemokan, Omaha, NB.

University, College and Department Committees and Activities:

University Patent and Copyright

Departmental Graduate

Departmental Promotion and Tenure

Non-University Professional Activities:

Founder of the "Chain of Life" educational and marketing program now under the direction of the Society of American Florists. Work closely with the Society of American Florists on this and other programs.

Papers Presented at Professional Meetings:

Included in journal articles.

Scientific and Professional Societies:

American Society for Horticultural Science

American Society of Plant Physiology

International Society for Horticultural Science

Gamma Sigma Delta

Alpha Zeta

Pi Alpha Xi

Sigma Xi

Honors and Awards:

The Michigan State University chapter of Sigma Xi Graduate Student Research Award was presented in 1970. This award signified acknowledgement of originality and significance of nominee's contribution to the advancement of science based on research conducted as a graduate student. Specifically, enzymes were extracted from plants that could biosynthesis in vitro various higher molecular weight terpenes. The biosynthesis of these terpenes was related to specific growth and developmental responses of plants in vivo.

Grant or Gift Support Received:

| Year | Source | Purpose | Amount |
|------|------------------------------|---------------------|---------|
| 1975 | Society of American Florists | Postharvest Care of | |
| | | Floral Crops | \$5,000 |
| | Union Carbide | " | \$5,000 |
| 1976 | Society of American Florists | " | \$5,000 |
| 1977 | Society of American Florists | " | \$5,000 |
| | O.S.U. Graduate School | " | \$3,000 |
| | Fred C. Gloeckner Co. | " | \$2,000 |
| 1978 | Society of American Florists | " | \$7,000 |
| | Smithers Oasis | " | \$500 |
| 1979 | Society of American Florists | " | \$8,000 |
| | Grumman | " | 2,972 |

Comments:

In research activities not connected to his Ohio State University position, Dr. Staby has invented two plant growing processes which have been issued both U.S. and Canadian patents. These processes related to the diffusion of oxygen in growing media and containers and basically eliminated the over-watering problems associated with growing plants in containers.

Since 1975, Dr. Staby has been developing a computer-based literature retrieval system dealing mainly with the postharvest physiology of floral crops. To date he has put approximately 3800 references on this system. Articles can be retrieved using keywords, journal titles, dates, and/or author names.

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NAME: Steven M. Still

DATE OF BIRTH: September 15, 1944

TITLE: Associate Professor

AGE: 35

ASSIGNMENT: O.A.R.D.C. 25 O.S.U. 75 O.C.E.S.

EDUCATION:

| <u>DEGREE</u> | <u>YEAR</u> | <u>INSTITUTION</u> | <u>MAJOR</u> |
|---------------|-------------|------------------------|---------------------|
| B.S. | 1966 | University of Illinois | Agronomy |
| M.S. | 1968 | " " " | Extension Education |
| Ph.D. | 1974 | " " " | Horticulture |

POSITIONS HELD:

July 1979 - present - Associate Professor, Ohio State University
 1974-1979 Assistant and Associate Professor, Kansas State University
 1970-1974 Graduate Teaching Assistant, University of Illinois

YEARS AT THE OHIO STATE UNIVERSITY: 5 months

RESIDENT INSTRUCTION:

Courses Taught Past Five Years (1- 1- 75 to 1- 1- 80)

Hort 432 Woody Deciduous Plants - Fall 1979 - 125 students
 Hort 433 Woody Evergreen Plants - Winter 1980 - 115 students
 Hort 434 Use of Woody Plants in the Landscape - Spring 1980 -
 Hort 431 Herbaceous Ornamental Plants - Spring 1980

Since I am new to the faculty, I will be teaching the above courses for the first time. Estimated enrollment for Horticulture 433 and 434 would be approximately 125.

Undergraduate Advisees - Autumn 1979 - 13

Student Organizational Involvements - None

Graduate Study Involvements

Number of Advisees Past Five Years (1- 1- 75 to 1- 1- 80)

M.S. 0 Ph.D. 0

Number of Program Completions Past Five Years

M.S. 0 Ph.D. 0

-2-

RESEARCH ACTIVITIES:

See Comments - Page 6

O.C.E.S. INVOLVEMENTS:

None

PUBLICATIONS:

Journal Articles (Referred)

- Still, S.M., M.A. Dirr and J.B. Gartner. 1974. Effect of nitrogen and composting on decomposition of barks from four hardwood species, Forest Prod. J., Vol. 24, no. 7, 54-56.
- Still, S.M., M.A. Dirr and J.B. Gartner. 1975. Growth of Bright Golden Anne chrysanthemums in hardwood bark as effected by nitrogen level and state of decomposition, Forest Prod. J., Vol. 25, no. 1, 54-57.
- Still, S.M., M.A. Dirr and J.B. Gartner. 1976. Phytotoxic effects of silver maple bark extracts on mung bean and cucumber growth. J. Amer. Soc. Hort. Sci., 101(1):34-37.
- Still, S.M. 1976. Growth of 'Sunny Mandalay' chrysanthemums in hardwood bark amended media as effected by insolubilized poly(ethylene) oxide. HortScience 11(5):483-484.
- Adisech, C.R. and S.M. Still. 1977. Defoliating nursery stock with combinations of ethephon, endothall, and cycloheximide. HortScience 12(6):566-568.

- Still, Steven M. 1977. Comparison of chrysanthemum growth in pine bark or commercial soilless mixes. HortScience 12(6):573-574.
- Klahr, M.D. and S.M. Still. 1979. Effect of indolebutyric acid and sampling-dates on the rooting of four Tilia taxa. Scientia Hortic. 11:391-397.
- Jones, Charlotte and Steven M. Still. 1979. Survey of business and management practices of commercial Kansas arborists. J. of Arboriculture 5(12):268-272.

Technical Articles

- Gartner, J.B., S.M. Still and J.E. Klett. 1974. The use of bark as a substrate in horticulture, Symposium on Artificial Media, Proceedings of the International Horticulture Society, pp. 2003-2012.
- Gartner, J.B., S.M. Still and J.E. Klett. 1974. The use of hardwood bark as a growth medium, International Plant Propagators Society Proceedings, Vol. 23, 222-229.
- Still, S.M. 1975. Comparative effects of fresh and composted bark extracts on plant growth, International Plant Propagators Society Proceedings, Vol. 24, 433-439.
- Still, Steven M. 1976. Defoliation of nursery stock for early harvest. International Plant Propagators Society Proceedings, Vol. 26, 255-259.
- Smyers, Don R. and Steven M. Still. 1978. Non-rootability of mature red oak and black walnut stem cuttings. The Plant Propagator 24(4):8-9.
- Pair, John C. and Steven M. Still. 1978. Adaptability of holly in Kansas. Holly Letter, No. 60:29.
- Myers, James R. and Steven M. Still. 1979. Propagating London planetree from cuttings. The Plant Propagator 25(3):9-11.

Other Published Articles

- Steven M. Still. 1976. Kansas summer tour features nursery research. American Nurseryman, September 1, 1976. pp. 14, 75. 580-T.
- Steven M. Still. 1977. Pertinent information and tours offered at Mid-Plains meeting. American Nurseryman. Vol. CXLVI, No. 6 pp. 8, 50, 52, 54, 56, 58, 60, 61, 64, 65.
- Suzanne Shaw and Steven M. Still. 1977. Survey reveals consumer buying trends and aids garden center advertising. American Nurseryman. Vol. CXLVI, No. 7, 13, 71, 72, 73.

MAJOR "OUT OF STATE" SPEAKING ENGAGEMENTS:

January 10, 1980 - presented a talk entitled "Survey of Business and Management practices of Kansas Arborists" at the annual Kansas Shade Tree Conference, Manhattan, Kansas.

UNIVERSITY, COLLEGE AND DEPARTMENT COMMITTEES AND ACTIVITIES:

Department - Undergraduate Committee

NON-UNIVERSITY PROFESSIONAL ACTIVITIES:

1978, Chairman, A.S.H.S. Selection Committee for the L.C. Chadwick and D.C. Kiplinger Awards for the Outstanding Senior Horticultural Students in the United States.

Member of the Collegiate Branch Activities Committee for A.S.H.S., 1978-82

Chairman of Teaching Methods Working Group for A.S.H.S., elected 1977, re-elected 1978.

Member of Aims and Goals Committee, Eastern Region, International Plant Propagators Society, 1978-80.

PAPERS PRESENTED AT PROFESSIONAL MEETINGS

71st. Annual Meeting of University of Guelph August 11-14, 1974
American Society of Horti-
cultural Science (A.S.H.S.) Guelph, Ontario
Paper--Evaluation of Chrysanthemums Grown in Fresh or Composted Barks
of Four Hardwood Species.

24th Annual Meeting Inter- Tulsa, Oklahoma December 4-9, 1974
national Plant Propagators
Society (I.P.P.S.)
Paper--Comparative Effects of Fresh and Composted Bark Extracts on Plant
Growth.

73rd Annual Meeting A.S.H.S. Baton Rouge, LA August 11-15, 1976
Papers--Comparison of Hardwood Bark, Softwood Bark and Ready-to-use
Commercial Mixes as Potting Media for Chrysanthemum Production.

The Effect of Antitranspirants on Winter Survival of various
Holly Cultivars.

Effect of Various Combinations of Ethephon, Endothall and Cyclo-
heximide on Chemical Defoliation of Nursery Stock for Early
Harvest.

26th Annual Meeting I.P.P.S. Rutgers Univeristy August 23-26, 1976
New Jersey

Paper--Defoliation of Nursery Stock for Early Harvest.

74th Annual Meeting A.S.H.S.

Salt Lake City, Utah

Oct. 10-15, 1977

Invited Paper--Teaching Methods for Herbaceous Plant Materials given
at a workshop on Teaching Plant Identification.

SCIENTIFIC AND PROFESSIONAL SOCIETIES:

American Society of Horticulture Science

International Plant Propagators Society

National Association of Colleges and Teachers in Agriculture

American Association Botanical Gardens and Arboreta

Alpha Zeta

Gamma Sigma Delta

Pi Alpha Xi

Holly Society of America

HONORS AND AWARDS

1974 recipient of the International Plant Propagators Society Student Award
for best paper based on research work done as a graduate student.

GRANT OR GIFT SUPPORT RECEIVED

| <u>YEAR</u> | <u>SOURCE</u> | <u>PURPOSE</u> | <u>AMOUNT</u> |
|-------------|---------------------------------|--|---------------|
| 1977 | Uni-Royal | Defoliation Study on Nursery crops | \$400 |
| 1977 | Holly Society of America | Anti-desiccants on Holly | \$2000 |
| 1977 | Kansas Arborists Association | Management Survey of Kansas Arborists | \$500 |
| 1978 | Kansas Arborists Association | Turf-Tree Competition Study | \$1500 |
| 1979 | Holly Society of America | Exposure trial for blue hollies | \$3000 |

These were grants received prior to my move to Ohio State University in July, 1979.

COMMENTS:

Since I am a new faculty member at Ohio State, my research program is not fully established. My first research direction will be toward a study of propagating and producing woody plant materials on their own roots (cuttings) rather than the present methods of grafting or budding. I see lindens and crabapples as two possible crops. After talking with Ohio nurserymen, I feel this is an area of research that could benefit the industry.

In addition, I see my role at Ohio State as primarily one of teaching and advising, since I am budgeted 75% O.S.U. I am keenly interested in this area, particularly in the continuation of strong plant material courses, which has been a long tradition at Ohio State University.

NAME: Thomas Davis Sydnor DATE OF BIRTH: January 27, 1940

TITLE: Associate Professor AGE: 39

ASSIGNMENT O.A.R.D.C. 40% O.S.U. 60% O.C.E.S.

EDUCATION:

| <u>Degree</u> | <u>Year</u> | <u>Institution</u> | <u>Major</u> |
|---------------|-------------|----------------------------|------------------|
| B.S. | 1962 | Virginia Polytechnic Inst. | Horticulture |
| Ph.D. | 1972 | North Carolina State Univ. | Plant Physiology |

POSITIONS HELD:

1978 to date Associate Professor, Landscape Horticulture, The Ohio State University, Columbus, Ohio 43210

1972-1978 Assistant Professor, Landscape Horticulture, The Ohio State University, Columbus, Ohio 43210

1969-1972 Graduate Research Assistant, N.C. State University, Raleigh, N.C.

1963-1969 Vice-President, Southside Nurseries, Inc., Richmond, Virginia (Elected Vice-President while in U.S. Army, 1963-69)

1963-1965 U.S. Army Chemical Corps (Honorable Discharge from U.S. Army Reserve as Captain)

1959-1963 (Summers) Southside Nurseries, Inc., Richmond, Virginia

YEARS AT THE OHIO STATE UNIVERSITY: 7

RESIDENT INSTRUCTION:

Hort. 111 Introduction to Landscape Horticulture Au 76 (191) Wi 77 (137)
 Spr 77 (140) Au 77 (141) Wi 78 (141) Spr 78 (109) Au 78 (128)
 Wi 79 (96) Spr 79 (92) Au 79 (81)

Hort. 294 Sophomore Seminar Au 76 (110)

Hort. 533 Nursery Management Sp 75 (33) Sp 76 (25) Sp 77 (34)

Hort. 631 Arboriculture Au 75 (28) Au 76 (49) Au 77 (58) Au 78 (49) Au 79 (45)

Undergraduate Advisees - Autumn 1979 - 119

Student Organizational Involvements

Advisor to Ohio State Landscape Association Jan. 1976 to present

Graduate Study Involvements

Number of Advisees Past Five Years (1 - 1- 75 to 1 - 1 - 80)

M.S. 7

Ph.D. 1

Number of Program Completion Past Five Years

M.S. 4

Ph.D. 0

RESEARCH ACTIVITIES:

Hatch 665 Resistance of maple species and cultivars to verticillium wilt and the etiology of the disease (10%).

Hatch 642 Evaluation of selected woody ornamental and shade trees (90%).

PUBLICATIONS:

Journal Articles (Referreed)

Sydnor, T. D. and R. A. Larson. 1975. Variations in endogenous levels of four growth regulatory compounds during growth and flowering of Gloria Azalea. J. Amer. Soc. Hort. Sci. 100:353-356.

Sydnor, T. D., T. A. Fretz, D. E. Crean and M. R. Cobbs. 1975. Photographic estimation of plant size. HortScience 10:219-220.

Sydnor, T. D. and T. D. Pretlow. 1975. Effects of methyl decanoate and undecanol on Cotoneaster apiculata. S.N.A. Research Journal 2(1):10-16.

Kuhns, L. J. and T. D. Sydnor. 1975. The phytotoxicity of copper treated burlap on balled and burlapped Cotoneaster divaricata. HortScience 10:613-614.

Kuhns, L. J. and T. D. Sydnor. 1976. Copper compounds influence deterioration of burlap in soil. J. Amer. Soc. Hort. Sci. 101:86-89.

Kuhns, L. J. and T. D. Sydnor. 1976. Visual symptoms of copper toxicity on woody ornamentals. J. Arboriculture 2:68-72.

Fretz, T. A., T. D. Sydnor and M. R. Cobbs. 1976. Monoterpene composition of foliage of 9 Juniperus species. Scientia Horticulture 5:85-91.

Sydnor, T. D., D. E. Crean and M. R. Cobbs. 1976. Leaching and water quality on service life of copper-treated burlap. HortScience 11:383-385.

Sterrett, R. B. and T. D. Sydnor. 1977. The production of ground covers in a sod-like manner. HortScience 12:492-494.

Hoitink, H. A. I., T. D. Sydnor, and C. L. Wilson. 1979. Resistance of maple cultivars and species to verticillium wilt - A preliminary report. Ornamental plants - 1979. A Summary of Research. Research Circular 246.

Fretz, T. A., D. E. Crean, and T. D. Sydnor. 1979. Slide Presentations. HortScience 14:223-225.

Technical Articles

Pretlow, T. D. and T. D. Sydnor. 1973. Effects of two compounds as chemical pinching agents on Cotoneaster apiculata. Ohio Agr. Res. and Dev. Ctr. Res. Sum. 71:19-21.

Fretz, T. A. and T. D. Sydnor. 1973. Flowering dogwoods in the landscape. Ohio Agr. Res. and Dev. Ctr. Res. Sum. 71:61-63.

Kuhns, L. J. and T. D. Sydnor. 1974. Effect of time, temperature, copper source and concentration on burlap strength. Ohio Agr. Res. and Dev. Ctr. Res. Sum. 79:47-49.

Kuhns, L. J. and T. D. Sydnor. 1974. Visual symptoms of copper toxicity. Ohio Agr. Res. and Dev. Ctr. Res. Sum. 79:41-44.

Sterrett, R. B. and T. D. Sydnor. 1976. Ground cover sods: an economic and production possibility. Proc. Int. Soc. Plant Prop. 25:408-412.

Course Manual

Sydnor, T. D. 1979. Introduction to Landscape Horticulture. 2nd. ed. Burgess Publishing Company, Minneapolis, Minnesota. 142 pp.

Invitational Papers

Sydnor, T. D. 1978. Winter Injury - An interaction. J. of Arboriculture 4:25-32.

Popular Articles

Puppel, D. W. and T. D. Sydnor. 1975. Deicing salt damage. The Buckeye Arborist 6(1):5-7.

Sydnor, T. D. 1975. Burlap-Complex answers to a simple question. Turf and Landscape Day - Field Day Reports pp. 39-40.

Sydnor, T. D. and L. J. Kuhns. 1976. Visual symptoms of copper toxicity on woody ornamentals. Weeds Trees and Turf 15(7):58-59. July.

Sydnor, T. D. and R. B. Sterrett. 1976. Producing ground cover in a sod-like manner. Ohio Report 61:67-69.

Kriss, C., T. D. Sydnor and M. Coon. 1976. A simplified method of close-up photography. American Horticulturist 55(6):26-28.

Sydnor, T. D. 1977. Sooty mold of trees. Ohio Coop. Ext. Serv. LF-CP 20:77.

Sydnor, T. D. 1977. Tree wound dressings are cosmetic. Ohio Coop. Ext. Serv. LF-CP 21:77.

Sydnor, T. D. 1977. New academic program produces better qualified horticulture students. American Nurseryman 145(10):44-46.

Sydnor, T. D. 1977. Trees make sense (cents). Cities and Village Magazine 25(6):22-24.

Sydnor, T. D. 1979. Arboriculture at The Ohio State University. Journal of Arboriculture 5:5-8.

Sydnor, T. D. 1979. Trees for small spaces. American Horticulturist. 58(5)14-19.

Sydnor, T. D. 1979. Weekly news releases on the shade tree evaluation project beginning 15 April 1979.

Scripted Slide Sets

These slide sets have been published as scripted slide sets for use by teachers.

Sydnor, T. D. 1977. Environmental injuries. Agdex 270/06. Ohio Agricultural Education Curriculum Materials Service. Columbus, Ohio. 16 pp.

Sydnor, Ann S. and T. D. Sydnor. 1977. Voyages. Ohio Nurserymen's Association. Columbus, Ohio.

Sydnor, T. D. 1978. Pruning. Agdex 270/ . Ohio Agricultural Education Curriculum Materials Service. Columbus, Ohio.

Sydnor, T. D. 1978. Diseases of ornamentals. Agdex 270/636. Ohio Agricultural Educational Materials Service. Columbus, Ohio.

Sydnor, T. D. 1978. Insects and Insect-like Problems. Agdex 270/ . Ohio Agricultural Curriculum Materials Service. Columbus, Ohio.

MAJOR "OUT OF STATE" SPEAKING ENGAGEMENTS

Major Multi-Media Presentations

These presentations involve the use of
6 slide projectors, 3 dissolve units,
3 screens, 2 tape recorders and a narrator.

Sydnor, Ann and T. D. Sydnor. 1976. Inspiration 76 - Ohio Nurserymen's Association Landscape Awards Program. Ohio Nursery Short Course.

Sydnor, Ann and T. D. Sydnor. 1977. Voyages - 4th Annual Ohio Nurserymen's Association Landscape Awards Program. Ohio Nursery Short Course.

"OUR OF STATE" SPEAKING ENGAGEMENTS

Sydnor, T. D. 1979. Winter Injury 1976-1977. International Society of Arboriculture.

Sydnor, T. D. 1979. Evaluating Shade Trees for Street Tree Use. Mass. Hort. Congress.

Sydnor, T. D. 1979. Ohio's Shade Tree Evaluation Program. Iowa Shade Tree Short Course.

Sydnor, T. D. 1979. Little known and little used shade trees. Metropolitan Tree Improvement Alliance.

UNIVERSITY, COLLEGE AND DEPARTMENT COMMITTEES AND ACTIVITIES:

Farm Science Review Program and Policy Committee (Secretary 1976-77)
 OARDC Grounds Committee
 Secrest Arboretum Committee
 Farm Science Review (1974 and 1975 Horticulture Departmental Exhibit Chairman)
 Farm Science Review South Plots Committee (Co-Chairman, 1975-1979)
 College of Agriculture Living-Learning Program (Advisor, 1973-1977)

NON-UNIVERSITY PROFESSIONAL ACTIVITIES:

Horticultural Consultant - Nationwide Insurance Company

PAPERS PRESENTED AT PROFESSIONAL MEETINGS:

Sydnor, T. D. and M. R. Cobbs. 1976. Water quality, leaching, copper source temperature and holding media influence burlap service life. HortScience 11:297.

Sterrett, R. B. and T. D. Sydnor. 1976. Ground cover plants as a sod-a new production technique. HortScience 11:329.

Sydnor, T. D. 1979. An objective evaluation of the growth and development of thirteen cultivars of Acer platanoides. HortScience 14:446

SCIENTIFIC AND PROFESSIONAL SOCIETIES:

College: Phi Kappa Phi
 Omicron Delta Kappa
 Alpha Zeta (Chancellor 1962)
 Pi Alpha Xi
 Sigma Xi
 Phi Sigma
 Who's Who in American Colleges and Universities, 1962
 Horticulture Club President
 Virginia Tech. Corps of Cadets (Regimental Staff 1962)
 Scabbard and Blade
 Association of the U.S. Army

Past Professional: Chesterfield Kiwanis Club (Board of Directors, 1966-68)
 Virginia Nurserymen's Association
 Richmond Nurserymen's Association (Sec-Treas., 1967-68)
 American Assoc. Nurserymen (Pres. of Region 17, 1967-68)

Professional: American Society for Horticultural Science
 International Society of Arboriculture
 Arboricultural Research and Education Academy
 Editor, Buckeye Arborist, 1975
 Ohio Nurserymen's Association
 Ohio Chapter ISA, Executive Secretary 1975 to 1978
 Associated Landscape Contractors of America

Community: Y Indian Guides (Longhouse Chief, 1975-76)
 Linworth North Civic Association, (Pres. 1974-76)
 Worthington Garden Club (Pres. 1976-77)
 Horticulture Sub-commission-City of Columbus

HONORS AND AWARDS:

Alfred J. Wright Award 1979

GRANT OR GIFT SUPPORT RECEIVED: (Past five years 1- 1- 75 to 1- 1- 80)

1976 Armak Company-Growth Regulator Studies \$1500.00

1976 Horticultural Research Institute - Copper treated burlap study \$500.00

NAME: Harry K. TayamaDATE OF BIRTH: May 26, 1935TITLE: ProfessorAGE: 44ASSIGNMENT: O.A.R.D.C. 20% O.S.U. 80%EDUCATION:

| <u>Degree</u> | <u>Year</u> | <u>Institution</u> | <u>Major</u> |
|---------------|-------------|----------------------|----------------------|
| B.S. | 1958 | Univ. of Illinois | Hort. (Floriculture) |
| M.S. | 1959 | Univ. of Illinois | Hort. (Floriculture) |
| Ph.D. | 1963 | The Ohio State Univ. | Hort. (Floriculture) |

POSITIONS HELD:

1970 to date - Prof. of Hort. - OSU and OARDC
 1967-70 - Assoc. Prof. of Hort. - OSU and OARDC
 1964-67 - Assist. Prof. of Hort. - OSU
 1963-64 - Assist. Prof. of Hort. - Penn. State

YEARS AT THE OHIO STATE UNIVERSITY: 15RESIDENT INSTRUCTION:Courses taught:

Hort 521 - Greenhouse Environment Control, A-77(89) A-78(108) A-79(78)
 Hort 522 - Commercial Floriculture Production I, W-78(54) W-79(55)
 Hort 523 - Commercial Floriculture Production II, S-78(35) S-79(38)
 Hort 321 - Indoor Plants, W-78(87) W-79(117)

Undergraduate Advisees - Autumn 1979 - 15

Student Organizational Involvements

Advisor to Pi Alpha Xi honorary fraternity
 Co-Advisor to Landscape and Floriculture Forum

Graduate Study Involvements

Number of Advisees Past Five Years
 M.S. - 11 Ph.D. - 5
 Number of Program Completions Past Five Years
 M.S. - 6 Ph.D. - 1

RESEARCH ACTIVITIES:

A Grant Proposal to CY/RO Industries - The Influence of Acrylite Glazing On
 Energy Conservation and Plant Response by William L. Bauerle, Ted H. Short
 and Harry K. Tayama. (5%)

Hatch 503 Revised - Effects of Ecological Factors, Growth Regulators, and
 Cultural Techniques on Selected Floral Crops by Harry K. Tayama and John C.
 Peterson. (15%)

O.C.E.S. INVOLVEMENTS:

Commercial Floriculture Production

PUBLICATIONS:Other Published Materials

HARRY K. TAYAMA

Kiplinger, D. C., H. K. Tayama, and G. L. Staby. 1975. A-Rest on mid-century hybrid lilies. Ohio Flor. Assn. Bul. 543. p. 5.

Kiplinger, D. C., H. K. Tayama, and G. L. Staby. 1975. Watering frequency as it affects flower bud count on Easter lilies. Ohio Flor. Assn. Bul. 543. p.6.

Tayama, H. K., H. A. Poole, R. K. Lindquist, and C. C. Powell. 1975. Extension slants--additions and corrections to essentials of pot lily culture, Easter, March 30, 1975. Ohio Flor. Assn. Bul. 543. p.7.

Kiplinger, D. C., H. K. Tayama, and G. L. Staby. 1975. A-Rest on a rubrum-type garden lily. Ohio Flor. Assn. Bul. 543. p.7.

Kiplinger, D. C., H. K. Tayama, and G. L. Staby. 1975. A-Rest on Ace and Arai lilies. Ohio Flor. Assn. Bul. 543. p.9.

Tsujita, M. J., D. C. Kiplinger, H. K. Tayama, and G. L. Staby. 1975. The effects of nitrogen source and growing media on the growth and keeping quality of mid-winter standard chrysanthemums. Ohio Flor. Assn. Bul. 545. p.6.

Tayama, H. K. and H. A. Poole. 1975. Extension slants--A-Rest on lilies, pot mums, and poinsettias. Ohio Flor. Assn. Bul. 546. p.11.

Tayama, H. A., H. A. Poole, R. K. Lindquist, and C. C. Powell. 1975. Extension slants--up-dating pesticide and growth regulator recommendations. Ohio Flor. Assn. Bul. 547. p. 5.

Lindquist, R. K., H. K. Tayama, and H. A. Poole. 1975. Extension slants--1975: a good year for spider mites and aphids, unless... Ohio Flor. Assn. Bul. 547. p.8.

Aulenbach, B., H. A. Poole, and H. K. Tayama. 1975. 56F standard mums--sea foam and yellow sea foam. Ohio Flor. Assn. Bul. 548. p. 8.

Hammer, P. L., D. C. Kiplinger, and H. K. Tayama. 1975. Greenhouse studies on the effect of chemical growth retardants on shoot growth of chrysanthemums and poinsettias. Ohio Flor. Assn. Bul. 549. p. 2.

Tayama, H. K., H. A. Poole, R. K. Lindquist, and C. C. Powell. 1975. Extension slants--poinsettia production--1975. Ohio Flor. Assn. Bul. 549. p. 8.

Kiplinger, D. C., H. K. Tayama, and H. A. Poole. 1975. Pointers on subirrigation of potted plants. Ohio Flor. Assn. Bul. 551. p.5.

Tsujita, M. J. D. C. Kiplinger, H. K. Tayama, and G. L. Staby. 1975. The effects of ammonium versus nitrate nitrogen on the growth, flowering, quality, and chemical composition of standard chrysanthemum growth in midwinter. Ohio Flor. Assn. Bul. 551. p.6.

Kiplinger, D. C., H. K. Tayama, H. A. Poole, R. K. Lindquist, and C. C. Powell. 1975. Essentials of pot lily culture, Easter, April 18, 1976. Ohio Flor. Assn. Bul. 552 Insert.

HARRY K. TAYAMA

Kiplinger, D. C., H. K. Tayama, and H. A. Poole. 1975. Phytotoxicity of temik on poinsettias. Ohio Flor. Assn. Bul. 553. p.9.

Kiplinger, D. C., H. K. Tayama, and H. A. Poole. 1975. Effects of differential amounts of phosphorus in the medium on height, bract size, and phosphorus level in the leaves of dark red Annette Hegg poinsettias. Ohio Flor. Assn. Bul. 553. p.10.

Reed, D. D., D. C. Kiplinger, and H. K. Tayama. 1976. The "growing on" of cuttings received from geranium stock plants given florel treatments. Ohio Flor. Assn. Bul. 555. p. 5.

Tayama, H. K., D. C. Kiplinger, and H. A. Poole. 1976. Shading and lighting poinsettias to schedule flowering dates. Ohio Flor. Assn. Bul. 555. p.7.

Tayama, H. K. and H. A. Poole. 1976. Extension slants--geranium production--the mother's day connection. Ohio Flor. Assn. Bul. 555. p. 9.

Reed, D. D., H. K. Tayama, and D. C. Kiplinger. 1976. Effect of florel and alar on the growth, flowering, and quality of petunias. Ohio Flor. Assn. Bul. 556. p.3.

Reed, D. D., D. C. Kiplinger, and H. K. Tayama. 1976. Comparative cost of several chemical plant growth regulators. Ohio Flor. Assn. Bul. 556. p.7.

Poole, H. A. and H. K. Tayama. 1976. Extension slants--the proper use of growth regulators. Ohio Flor. Assn. Bul. 557. p.7.

Chi, H., D. C. Kiplinger, H. K. Tayama, and D. Crean. 1976. The effect of nitrate- and ammoniacal-nitrogen on organic nitrogen fractions and free ammonia in the greenhouse chrysanthemum 'Indianapolis yellow'. Ohio Flor. Assn. Bul. 557. p.10.

Poole, H. A. and H. K. Tayama. 1976. Extension slants--soil costs--are you making the right decisions? Ohio Flor. Assn. Bul. 558. p.4.

Poole, H. A. and H. K. Tayama. 1976. Extension slants--the hidden costs of poor soil: losses. Ohio Flor. Assn. Bul. 559. p.6.

Tayama, H. K. and H. A. Poole. 1976. A new and more efficient method of sleeving pot plants. Ohio Flor. Assn. Bul. 560. p. 7.

Tayama, H. K., H. A. Poole, and D. C. Kiplinger. 1976. Poinsettia production--1976. Ohio Flor. Assn. Bul. 561. p.3.

Tayama, H. K. and D. C. Kiplinger. 1976. Wholesale value of floricultural crops produced in Ohio climbs to over 50 million dollars in 1975. Ohio Flor. Assn. Bul. 562. p.1.

Quinn, J. D. C. Kiplinger, and H. K. Tayama. 1987. The effects of florel (ethephon) and shell SD-8339 (PBA) on columneas. Ohio Flor. Assn. Bul. 562. p. 4

Tayama, Harry K. and H. A. Poole. 1976. Extension slants--porous concrete. Ohio Flor. Assn. Bul. 562. p. 11.

Kiplinger, D. C. and H. K. Tayama. 1976. Growth of poinsettias in clear plastic pots. Ohio Flor. Assn. Bul. 562. p.12.

HARRY K. TAYAMA

Patranella, J., D. C. Kiplinger, H. K. Tayama, and H. A. Poole. 1976. Determining natural flower bud initiation dates of four cultivars of poinsettias. Ohio Flor. Assn. Bul. 563. p.5.

Kiplinger, D. C., H. K. Tayama, H. A. Poole, R. K. Lindquist, and C. C. Powell. 1976. Essentials of pot lily culture, Easter, April 10, 1977. Ohio Flor. Assn. Bul. 565 Insert.

Quinn, John, D. C. Kiplinger, and H. K. Tayama. 1977. The effects of florel (ethephon) and shell SD-8339 (PBA) on chrysanthemums. Ohio Flor. Assn. Bul. 569. p.6.

Lewnes, M. A., H. K. Tayama, and D. C. Kiplinger. 1977. Effective height control of 'Georgia' Easter lilies with A-rest. Ohio Flor. Assn. Bul. 576. p.2.

Lewnes, M. A., H. K. Tayama, and D. C. Kiplinger. 1977. A-Rest and phosfon cause stem weakness in 'Georgia' Easter lilies. Ohio Flor. Assn. Bul. 576. p.3.

Tayama, H. K., H. A. Poole, R. K. Lindquist, and C. C. Powell. 1977. Essentials of pot lily culture, Easter, March 26, 1978. Ohio Flor. Assn. Bul. 576 Insert.

Konjoian, Peter S. and H. K. Tayama. 1978. Production schedules for seed geraniums. Ohio Flor. Assn. Bul. 579. p.1.

Tayama, H. K. 1978. Effect of various mediums on the rooting of poinsettias, cv. 'Annette Hegg dark red' - I. Ohio Flor. Assn. Bul. 586. p.3.

Tayama, H. K. 1978. Effect of various mediums on the rooting of poinsettias, cv. 'Annette Hegg dark red' - II. Ohio Flor. Assn. Bul. 586. p.3.

Tayama, H. K. 1978. Effects of various soil mixtures on the growth, flowering, and quality of poinsettias, cv. 'Annette Hegg dark red'. Ohio Flor. Assn. Bul. 586.p.5.

Tayama, H. K. 1978. Effects of various soil mixtures on the growth, flowering, and quality of poinsettias, cv. 'Annette Hegg dark red' and 'Annette Hegg top star'. Ohio Flor. Assn. Bul. 586. p.6.

Tayama, H. K. 1978. Effects of various soil mixtures on the growth, flowering, and quality of poinsettias, cv. 'Annette Hegg dark red' and 'super Rochford'. Ohio Flor. Assn. Bul. 586. p.7.

Tayama, H. K. 1978. Effect of position of pinching on the growth, flowering, and quality of poinsettias, cv. 'Annette Hegg dark red', 'Annette Hegg diva', and 'Annette Hegg top star'. Ohio Flor. Assn. Bul. 587. p.8.

Tayama, H. K. 1978. Effect of cycocel spray coverage rate on the growth, flowering, and quality of poinsettias, cv. 'Annette Hegg dark red' and 'Annette Hegg white'. Ohio Flor. Assn. Bul. 587. p.9.

Tayama, H. K. 1978. Effect of lighting on the growth, flowering, and quality of poinsettias, cv. 'Annette Hegg dark red', 'Annette Hegg hot pink', and 'super Rochford'. Ohio Flor. Assn. Bul. 587. p.10.

Tayama, H. K., J. C. Peterson, R. K. Lindquist, and C. C. Powell. 1978. Essentials of pot lily culture, Easter, April 15, 1979. Ohio Flor. Assn. Bul. 588 Insert.

HARRY K. TAYAMA

Tayama, H. K., J. C. Peterson, R. K. Lindquist, and C. C. Powell. 1979. The most common mistakes in poinsettia production. Ohio Flor. Assn. Bul. 598. p.1.

Tayama, H. K. 1979. The Florida connection--growing pre-finished plants for the north. Ohio Flor. Assn. Bul. 600. p.4.

Tayama, H. K., J. C. Peterson, R. K. Lindquist, C. C. Powell, and G. L. Staby. 1979. Essentials of pot lily culture, Easter, April 6, 1980. Ohio Flor. Assn. Bul. 600 Insert.

Tayama, H. K., J. C. Peterson, W. M. Brooks, R. K. Lindquist, and C. C. Powell. 1979. Ohio Flor. Assn. Bul. 602. p.1.

MAJOR "OUT OF STATE" SPEAKING ENGAGEMENTS:

Do not keep a record.

UNIVERSITY, COLLEGE AND DEPARTMENT COMMITTEES AND ACTIVITIES:

Pesticide Committee
Curriculum Committee
President Club Committee

NON-UNIVERSITY PROFESSIONAL ACTIVITIES:

Executive Secretary, Ohio Florists' Association
Editor, Ohio Florists' Association Bulletin
Executive Secretary, Ohio State Floriculture/Landscape Horticulture Alumni Association

PAPERS PRESENTED AT PROFESSIONAL MEETINGS:

Reed, D. D., H. K. Tayama, and D. C. Kiplinger, 1975. The effect of low intensity dusk to dawn lighting and florel on geranium stock plants. A.S.H.S. meetings-June.

Reed, D. D., H. K. Tayama, and D. C. Kiplinger. 1975. Rooting of cuttings from geranium stock plants subjected to low intensity dusk to dawn lighting and florel treatments. A.S.H.S. meetings-June.

Quinn, J. R., D. C. Kiplinger, and H. K. Tayama. 1975. The effects of two growth regulators on the lateral branching of chrysanthemum stock plants. A.S.H.S. meetings-June.

Shabot, R., H. K. Tayama, and D. C. Kiplinger. 1975. The use of substituted oxathiin sprays as a means of suppressing lateral flower shoot development on chrysanthemum morifolium. A.S.H.S. meetings-June.

Thompson, M. C., H. K. Tayama, and D. C. Kiplinger. 1975. The effect of strobe lighting on flower bud initiation on chrysanthemums. A.S.H.S. meetings-June.

Lewnes, M. A., H. K. Tayama, and D. C. Kiplinger. 1976. Application of, and anatomical changes due to ancymidol and phosfon on *Lilium longiflorum* thunb. cv. Georgia. A.S.H.S. meetings-August.

- Patranella, J., D. C. Kiplinger, and H. K. Tayama. 1976. Determining natural flower bud initiation dates of *Euphorbia pulcherrima* Willd. A.S.H.S. meetings-August.
- Broschat, T. K., D. C. Kiplinger, and H. K. Tayama. 1977. Effects of several slow release fertilizers on the quality of garden geraniums, marigolds, and salvias. A.S.H.S. meetings-October.
- Konjoian, P. S., D. C. Kiplinger, H. K. Tayama, and M. A. Lewnes. 1977. The effect of cycocel and florel application on the growth, flowering, and quality of zonal geraniums. A.S.H.S. meetings-October.
- Zrebiec, V., D. C. Kiplinger, and H. K. Tayama. 1977. Critical daylength in *Kalanchoe* x species cv. Louise as affected by night temperature. A.S.H.S. meetings-October.
- Konjoian, P. S., D. C. Kiplinger, H. K. Tayama, and M. A. Lewnes. 1977. The effect of propagation date, temperature, and pruning on the growth, flowering, and quality of zonal geraniums. A.S.H.S. meetings-October.
- Konjoian, P. S., D. C. Kiplinger, and H. K. Tayama. 1977. The effect of propagation date, temperature, low intensity lighting, and growth regulator on the growth, flowering, and quality of seed geraniums. A.S.H.S. meetings-October.
- Konjoian, Peter S., D. C. Kiplinger, and H. K. Tayama. 1977. The effect of temperature regimes on the growth and quality of bedding plants. A.S.H.S. meetings-October.
- Broschat, T. K. and H. K. Tayama. 1978. Relationships among slow release fertilizer application rates, soil and foliar nutrient levels, and plant quality in garden grown salvia. A.S.H.S. meetings-July.

SCIENTIFIC AND PROFESSIONAL SOCIETIES:

American Society for Horticultural Science
Society of American Florists'
Bedding Plants, Inc.
Florida Foliage Association

HONORS AND AWARDS:

Kenneth Post Award, American Society for Horticultural Science, 1964.

COMMENTS:

Active in D. C. Kiplinger Chair Project.
Trustee, Society of American Florists' Endowment.
Active in coordinating the Ohio Florist Short Course.

NAME: James D. Utzinger

DATE OF BIRTH: April 3, 1932

TITLE: Professor and Extension Horticulturist

AGE: 47

ASSIGNMENT: O.A.R.D.C. Courtesy O.S.U. 45% O.C.E.S. 55%

EDUCATION:

| <u>Degree</u> | <u>Year</u> | <u>Institution</u> | <u>Major</u> |
|---------------|-------------|---------------------------|---|
| B.Sc. | 1954 | The Ohio State University | Agriculture |
| B.Sc. | 1959 | The Ohio State University | Education |
| M.Sc. | 1958 | The Ohio State University | Agriculture |
| Ph.D. | 1969 | The Ohio State University | Agricultural Education/ Horticulture |

MILITARY

4 years, R.O.T.C., The Ohio State University, 1950-1954
 Field Artillery Officer Basic Course, January-May, 1955
 2078th School, Fort Hayes, Columbus, Ohio, 1956-1959

POSITIONS HELD:

Professor and Extension Horticulturist, The Ohio State University
 July 1, 1978 to date

Associate Professor and Extension Horticulturist, The Ohio State University
 July 1973-July 1, 1978

Assistant Professor and Extension Horticulturist, The Ohio State University
 January 1970-July 1973

Instructor and Extension Horticulturist, The Ohio State University
 July 1967-January 1970

Vocational Horticulture Instructor, South-Western City Schools, Franklin
 County, Ohio, July 1963-July 1967

Consultant in Agricultural Education, Center for Vocational and Technical
 Education, The Ohio State University (On Leave of Absence, South-Western
 City Schools), March 1965-July 1965

Comprehensive Science Teacher, South-Western City Schools, Franklin County,
 Ohio, September 1959-1963

Teaching Assistant, The Ohio State University
 January 1958-March 1958

2nd Lt. and Assistant Executive Officer,
 2nd Field Artillery Battalion, Fort Sill, Oklahoma
 May 1955-January 1956

1st Lt. and Assistant Range Officer, G-3 Operations Section, Fort Sill,
 Oklahoma, January 1955-December 1955

Captain, U.S. Army Reserve until honorable discharge 1963

Assistant Manager, General Farming Operation, Franklin County, Ohio
 May 1950-September 1950

YEARS AT THE OHIO STATE UNIVERSITY: 12

RESIDENT INSTRUCTION:

Courses Taught Past Five Years (1-1-75 to 1-1-80)

Agron/Hort 200 - Plant Science in Agriculture

A-75 (78) - Columbus Campus

A-76 (67) - Columbus Campus

W-77 (16) - Mansfield Campus

Sp-77 (37) - Columbus Campus

A-77 (73) - Columbus Campus

W-78 (63) - Columbus Campus

W-78 (15) - Marion Campus

A-78 (88) - Columbus Campus

W-79 (9) - Mansfield Campus

A-79 (83) - Columbus Campus

Hort 293 - Individual Studies in Horticulture

Su-77 (1) - Columbus Campus

A-78 (1) - Columbus Campus

Hort 593 - Individual Studies

Sp-78 (1) - Columbus Campus

Hort 450 - Principles of Vegetable Crop Production

Sp-79 (32) - Columbus

Undergraduate Advisees - Autumn 1979 - 45

College Honors Program Student Committees - 6

Student Organizational Involvements

Co-adviser to University Fruit & Vegetable Society, 1971 to date.

Faculty Friend, College of Agriculture & Home Economics "Living and Learning Program," 1975 to date.

Graduate Study Involvements

Number of Advisees Past Five Years 1-1-75 to 1-1-80

M.S. - 1

Ph.D. - 0

M.S. Guidance Committees - 7

Ph.D. Guidance Committees - 1

Number of Program Completions Last Five Years

M.S. - 1

Ph.D. - 0

RESEARCH ACTIVITIES:

Research (Courtesy Appointment)

Job Description

1. Conduct vegetable variety evaluation studies to obtain information for dissemination to growers.
2. Reading research to keep current on developments in the area of specialization.

Activities and Accomplishments

Ohio Agricultural Research and Development Center Publications

Horticulture Series 439 "1976 Evaluation of Sweet Corn Cultivars."
(co-author with W.M. Brooks, W.L. George, Jr., G.G. Myers, A.R.
Mosley and E.K. Alban). 1976

Ohio Report on Research and Development "Study of the Economic Value
of Home Vegetable Gardens." September-October 1977. (co-author
with H.E. Connolly). 1977

Horticulture Series 466 "1978 Evaluation of Sweet Corn Cultivars."
Columbus. (co-author with W.M. Brooks, G.G. Myers and E.K. Alban).
1978.

Horticulture Series 470 "Fresh Market Staked Tomato Trial 1978."
(co-author with John W. Scott, Gerald G. Myers and Monica Kmetz).
1978.

Horticulture Series 449 "1977 Evaluation of Sweet Corn Cultivars."
Columbus. (co-author with W.M. Brooks, D. Smith, A.L. Mosley,
G.G. Myers, and E.K. Alban). 1977.

O.C.E.S. INVOLVEMENTS:

Major Components of Extension Involvement Over the Past Five Years

1. Assisting Ohio citizens in producing good yields of high quality fruits and vegetables in the home garden for improved family nutrition, food enjoyment and financial gain. Activities included publication development, radio and TV tape production, conducting in-service education programs for county and area faculty, making lime and fertilizer recommendations, preparation of timely news releases and providing consultant service via telephone, mail and personal contacts.
2. Providing Ohio 4-H Club members with interesting, challenging, and educational projects in fruit and vegetable crop science.
3. Conducting the Ohio program of the National Junior Horticultural Association as State Chairman, 1975 to 1977.

PUBLICATIONS:

Journal Articles (Refereed)

HortScience 13(2):148-149 1978 "Economic Value of a Home Garden," Co-author with Helen E. Connolly).

Technical Articles

U.S. Department of Agriculture

1977 U.S. Department of Agriculture Yearbook, Gardening for Food and Fun, "Strawberries Like Full Sun - And a Great Deal of Attention": (co-author with R.G. Hill, Jr. and E.J. Stang).

Brooklyn Botanical Gardens

Natural Gardening Handbook Article "Nutrients Needed by Plants" (co-author with John Trierweiler) 1975.

Other Published MaterialsPublications: Pre and In-Service

Doctoral Dissertation, "Educational Opportunities in Horticulture for Ohio Youth." Columbus. The Ohio State University, 1969.

Master's Thesis, "Cost of Operation and Farm Experiences With the Hay Conditioner on Selected Central Ohio Farms 1957." The Ohio State University, 1958.

Ohio Cooperative Extension Service Bulletins (Amateur Fruit & Vegetable)

411. "Growing Bramble Fruit" (co-author with R.G. Hill, Jr. and E.J. Stang). 1974
591. "Growing and Using Fruit at Home" (co-author with E.J. Stang). 1975
621. "1977 Garden Calendar." 1977
621. "1978 Garden Calendar." 1978
621. "1979 Garden Calendar." 1979

Leaflets

- LL-1. Instructional Unit, "Growing Fruit at Home." (co-author with E.J. Stang). 1976
L-274. "Fruit Varieties for Ohio Home Gardens." (co-author with E.J. Stang). 1978

Landscape Facts

- LF-VG13-75. "Growing Leafy Vegetables in the Home Garden." 1975
LF-VG11-75. "Fertilizing Vegetable Garden Soils." (co-author with W.M. Brooks). 1975
LF-VG16-77. "Growing Cucumbers in the Home Garden." (co-author with W.M. Brooks and E.C. Wittmeyer). 1977
LF-VG17-77. "Growing Onions in the Home Garden." (co-author with W.M. Brooks and E.C. Wittmeyer). 1977
LF-VG18-77. "Growing Peppers in the Home Garden." (co-author with W.M. Brooks and E.C. Wittmeyer). 1977
LF-VG21-78. "Growing Muskmelons in the Home Garden." 1978 (co-author)
LF-VG20-78. "Growing Celery in the Home Garden." 1978 (co-author)
LF-VG19-78. "Growing Carrots in the Home Garden." 1978 (co-author)
LF-CP24-79. "Effects of Wood Ashes on Garden Soils." (co-author with W.M. Brooks and R. Touse). 1979
LF-VG24-79. "Growing Beets in the Home Garden." (co-author with W.M. Brooks and E.C. Wittmeyer). 1979
LF-VG25-79. "Growing Eggplant in the Home Garden." (co-author with W.M. Brooks and E.C. Wittmeyer). 1979
LF-VG26-79. "Growing Watermelon in the Home Garden." (co-author with W.M. Brooks and E.C. Wittmeyer). 1979

Television Shows, Ohio Cooperative Extension Service

- "Tips on Seeding and Planting Vegetables." 4.5 Minute Color TV Tape. 1975
"Home Vegetable Gardening." 4.5 Minute Color TV Tape. 1977

Slide Series and Script

- "Growing Fruit at Home." 80 Color Slides and Script. 1976 (co-author with E.J. Stang). (Distributed to 10 Ohio Area Extension Centers).

Department of Horticulture Mimeographs and Fact Sheets

"Guidelines for Establishing and Operating Community and Rent-A-Garden Programs." (co-author with Brooks, Coon, Caldwell and Wittmeyer). 1975

"Growing Turnips and Rutabagas in the Home Garden." (co-author with W.M. Brooks and E.C. Wittmeyer). 1976

"Ohio N.J.H.A. Judging, Information and Identification Contest." Annually, 1969-1977.

"A Suggested Format for Conducting a Plant Science In-Service Education Workshop for Public School Science Teachers." 1975

"Program Description Horticultural Education at The Ohio State University" (co-author with J.R. Geisman and L.H. Newcomb). 1977

"The Internship Program in the Fruit and Vegetable Industry." 1978

Publications for Educational AgenciesChevron Chemical Company

"All About Tomatoes." Ortho Books, 176 Coronado, Los Altos, California (contributing co-author). 1976

MAJOR OUT OF STATE SPEAKING ENGAGEMENTS:

"Home Horticulture Update" presented at the Spring Conference of West Virginia County Agent's Association, Huntington, West Virginia, April 6, 1979.

UNIVERSITY, COLLEGE AND DEPARTMENT COMMITTEES AND ACTIVITIES:Department

Secretary, Ohio Horticulture Council, 1973 to date

Co-adviser, University Fruit & Vegetable Society, 1971 to date

Chairman and Member, Recruitment Committee, 1972-1973

Member and Past Chairman, Undergraduate Committee, 1977 to date

Member and Past Chairman, Farm Science Review Committee, 1973-1975

Chairman and Member, Curriculum Committee, 1974 to date

Member and Past Chairman, Freshman Exploratory Program Committee, 1976 to date

Member, Promotion and Tenure Committee, 1976, 1978

Liaison, Department of Agricultural Education, 1967 to date

College

Member, Recruitment Committee, 1971-1976

Chairman and Member, Farm Science Review Program and Policy Committee, 1973-1976

Chairman and Member, Organic Gardening Committee, 1972-1973

Member, Career Education in Agribusiness, Natural Resources and Environmental Protection Project, 1972-1973

Chairman and Member, Farm Science Review Youth Committee, 1970-1974

Faculty Friend, Living and Learning Program, 1975 to date

Member, Agricultural Mechanics and Engineering

Advisory Committee, 1976 to date

Member, Pesticide Assessment Committee, 1976-1978

Member, Vegetable Industry Task Force, 1968

College (continued)

Member, Fruit Industry Task Force, 1968
 Member, Human Nutrition Task Force, 1973
 Chairman and Member, Horticultural Industry Task Force, 1973
 Member, Agricultural Energy Planning Committee, 1977 to date
 Faculty Affairs Committee, October 1, 1979 to date
 Coordinator, Home Horticulture In-Service Education Proposals for Ohio
 Extension Faculty, "Revised Rainbow Edition." October, 1979
 Coordinator, Home Horticulture In-Service Workshops (Major, 13.5 hours)
 (Minor, 2 hours) at Annual Conference for Ohio Extension Workers,
 Columbus, 1978-1979

University

Member, Coordinating Committee for Cross Listed Agronomy/Horticulture 200
 Course, Office of Academic Affairs, 1975 to date

State

Member, Board of Trustees, 4-H Camp Ohio, 1970-1973
 Member, State 4-H Review Team, 1975
 Chairman, Outdoor and Conservation Committee, 4-H Camp Ohio, 1971-1972
 Member, State Extension Advisory Committee, 1976-1977

National

Chairman, Steering Committee, National Junior Horticultural Association
 38th Annual National Convention, Columbus, Ohio, 1972
 Chairman and Member, ECOP Home Horticulture Workshop Planning Committee, 1973
 Member, American Society for Horticultural Science Committee on Nominations,
 Elections and Appointments, 1976-1977
 Member, ECOP Home Horticulture Workshop Planning Committee, 1978
 Participant ECOP Home Horticulture Workshop, Washington D.C., May 20-22, 1978
 Chapter Delegate Gamma Sigma Delta National Conclave, Knoxville, Tennessee,
 June 1978
 Member, Local Arrangements Committee, American Society for Horticultural
 Science, 1978-1979

Other Responsibilities

Past President and Executive Council Member, Ohio Extension Professors
 Association, 1978-1979
 President, Ohio Extension Professors Association, 1977-1978
 President Elect, Ohio Extension Professors Association, 1976-1977
 Superintendent, Department 26, National Junior Horticultural Association,
 Ohio State Fair Junior Division, 1969-1977
 Educational Adviser, Ohio Vegetable and Potato Growers Association, 1967
 to date

NON-UNIVERSITY PROFESSIONAL ACTIVITIES:

President and Vice President, St. John's Lutheran Church Congregation,
 Grove City, Ohio
 Superintendent and Assistant Superintendent, St. John's Lutheran Church,
 Sunday School, Grove City, Ohio
 Member, Horticultural Advisory Committee, Westland High School, South-
 Western City Schools
 Member, Landscape Awards Committee, Grove City Jaycees
 Garden Columnist, Columbus Citizen-Journal

PAPERS PRESENTED AT PROFESSIONAL MEETINGS:

"Computerized Soil Test Recommendations for Home Vegetable Gardens"
75th Anniversary Meeting, American Society for Horticultural Science,
Boston, Massachusetts, July 17, 1978.

SCIENTIFIC AND PROFESSIONAL SOCIETIES:

American Society for Horticultural Science (Member Elections and Local
Arrangements Committees)

Registration and Certification

Pesticide Applicator License

Ohio Department of Agriculture, January 1977 to date

Four Year Provisional Teaching Certificate - Comprehensive Science

Ohio Department of Education, 1959, 1963 and 1967

Four Year Provisional Teaching Certificate - Vocational Agriculture

Ohio Department of Education, 1964

HONORS AND AWARDS:

Initiate, Gamma Sigma Delta Agricultural Honorary, 1954

Recipient, National Science Foundation Summer Institute Scholarship, 1962

Recipient, Diamond Pin Award, National Junior Horticultural Association,
1972

Recipient, Honorary State FFA Degree, Ohio FFA Association, 1973

Initiate Epsilon Chapter, Phi Alpha Xi Collegiate Honorary in Floriculture
and Landscape Horticulture, April, 1978

Initiate, Alpha Eta Chapter, Epsilon Sigma Phi Extension Honorary,
October, 1978

Recipient, Ohio Junior Horticultural Association Distinguished Service
Award, August, 1978

GRANT OR GIFT SUPPORT RECEIVED: (Past Five Years 1-1-75 to 1-1-80)

None

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NAME: E.C. Wittmeyer

DATE OF BIRTH: 8/11/22

TITLE: Extension Horticulturist and
Professor

AGE: 57

ASSIGNMENT: O.C.E.S. 100%

EDUCATION: B.S. The Ohio State University - 1946 - Horticulture
Graduate work toward M.Sc. 1946 - Horticulture

POSITIONS HELD:

1979 - Professor and Extension Horticulturist, OCES
1959 - Professor and Extension Horticulturist, OCES
1955 - Associate Professor and Extension Horticulturist, OCES
1953 - Assistant Professor and Extension Horticulturist, OCES
1950 - Instructor and Extension Horticulturist, OCES
1948 - Agronomist, American Agricultural Chemical Co.

Years at The Ohio State University - 29

RESIDENT INSTRUCTION: No formal responsibilities except frequent conferences
with students.

RESEARCH ACTIVITIES: No projects except close cooperation with faculty engaged
in vegetable and potato research. Involved in over-state potato cultivar
evaluation trials.

OCES INVOLVEMENT: Responsible for developing educational programs and activi-
ties for potato growers, processors, and growers raising vegetables for
processing. Assist other faculty with home garden activities, primarily
preparation of bulletins and fact sheets. Assist county Extension agents
on developing and executing educational programs on local and area levels.
Emphasis during past five years has been toward more area and statewide
schools and conferences.

PUBLICATIONS: Most of the publications in this area have been of Extension
nature, usually in cooperation with other faculty.

Rowe, R.C., E.C. Wittmeyer and James Pisarczyk. Ohio Potato Production
Guidelines, 1979, OCES L-258 (Annual Revisions).

Alban, E.K., W.M. Brooks and E.C. Wittmeyer. Herbicides for Weed Control
in Vegetable Crops, 1979, OCES MM-246 (Annual Revisions).

Utzinger, J.D., W.M. Brooks and E.C. Wittmeyer. Home Vegetable Gardening
in Ohio, 1979, OCES Bulletin 287.

Brooks, W.M., J.D. Utzinger, E.C. Wittmeyer et al., Vegetable Varieties
for Ohio Home Gardens, 1978, OCES L-100.

Kretchman, D.W., E.C. Wittmeyer and others. Ohio Guidelines for Produc-
tion of Machine-Harvested Tomatoes, 1979. OCES Bulletin 647.

-2-

Research Publications:

Pisarczyk, J.M., R.C. Rowe, E.C. Wittmeyer, and others. Ohio Potato Cultivar Trials, 1978. OARDC Horticulture Department Series 465 (Annual issues).

Other Published Materials: Frequent contributor to Ohio Vegetable Grower. Also cooperated on the OCES Newsletter for Commercial Vegetable and Potato Growers.

MAJOR "OUT OF STATE" SPEAKING ENGAGEMENTS - Ontario Vegetables for Processing Conference, 1978. Participant in USDA-Industry Transplant Advisory Committee.

UNIVERSITY, COLLEGE AND DEPARTMENT COMMITTEES:

Department Farm Science Review Committee
Department Extension Committee
College Pesticide Committee
Vegetable Information Task Force
Cucumbers for Pickling Committee, OCES-OARDC
Cabbage Commodity Committee, OCES-OARDC
Tomato Steering Committee
Potato Industry Committee, OCES-OARDC
Production of Horticultural Crops, Awareness Committee

NON-UNIVERSITY PROFESSIONAL ACTIVITIES:

Educational advisor to the Ohio Vegetable and Potato Growers Association
Advisor for research, education and related industry activities for Ohio Potato Growers Association
Member (educational) Produce Marketing Association
Member (educational) Ohio Pesticide Education Association
Columbus Vegetable Growers Association

SCIENTIFIC AND PROFESSIONAL SOCIETIES:

American Society for Horticultural Science
Florida State Horticultural Society
European Association for Potato Research
Potato Association of America
American Society of Agronomy
International Society for Horticultural Science

HONORS AND AWARDS:

Achievement Award from Vegetable Growers Association of America
H.D. Brown Award from Ohio Food Processors' Association, 1974
Extension Award, Gamma Sigma Delta, 1975

GRANT OR GIFT SUPPORT:

1. Approximately \$5000 each year from Ohio Potato Growers Association for support of research and extra technician help at OARDC.
2. Contacts with grower and other industry leaders regarding President's Club.

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